



Regular Meeting

of the

Board of Commissioners

10/12/23

**Item 11a: Receive Status Update Regarding Humboldt Bay Offshore Wind Heavy Lift Marine Terminal Project**

# Status Update Regarding Humboldt Bay Offshore Wind Heavy Lift Marine Terminal Project



R. Holmlund  
10/12/23



# Project Background





# HUMBOLDT BAY HARBOR, RECREATION, & CONSERVATION DISTRICT

A Special District of the State of California

- About
- Meetings & Notices
- Recreation
- Conservation
- Harbor/Port
- Conditions
- Contact

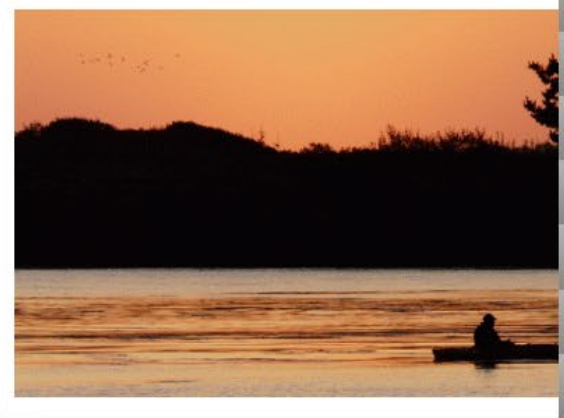
## Pay Your Bill Online

## Meetings & Agendas

- June 22, 2023 Special Board Meeting Agenda
- June 8, 2023 Regular Board Meeting Agenda
- May 17, 2023 Humboldt Bay Development Association Agenda
- May 11, 2023 Regular Board Meeting Agenda
- April 27, 2023 Special Board Meeting Agenda
- April 19, 2023 Humboldt Bay Development Association Agenda
- April 13, 2023 Regular Board Meeting Agenda
- March 30, 2023 Special Board Meeting Agenda
- July 20th 2022 HBDA-Agenda Packet
- July 14th 2022 Agenda
- July 14th 2022 Agenda Packet
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- March 10, 2022 Regular Board Meeting Agenda
- February 10, 2022 Regular Board Meeting Agenda
- January 13, 2022 Regular Board Meeting Agenda
- December 9, 2021 Regular Board Meeting Agenda
- November 4, 2021 Special Board Meeting Agenda
- October 14, 2021 Regular Board Meeting

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## Current Items



## Request for Proposals: 2023 Woodley Island Marina Maintenance Dredging

**Bid Packages are due by 2:00 p.m. PST on June 30, 2023**

The Humboldt Bay Harbor, Recreation & Conservation District is seeking proposals for maintenance dredging at Woodley Island Marina in Eureka, California. An optional Pre-Bid Meeting will be held at the same location at 2:00 p.m. on Thursday, the 15th day of June 2023. Plans and other bid documents can be viewed at the address above during business hours.

[RFP Package](#)

- Offshore Wind Port Terminal Project
- Overview
- Foreign Trade Zone
- General Tariff
- U.S. Customs
- Facilities
- Shipping Terminals
- Fee Schedules
- Services
- Cruise Ship Schedule
- Anchoring Rules
- FAQs - Harbor/Port

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Offshore Wind Port Terminal Pro

Overview

Foreign Trade Zone

General Tariff

U.S. Customs

Facilities ▼

Shipping Terminals ▼



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# Humboldt Bay Harbor District

@humbolddbayharbordistrict 13 subscribers 1 video

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Welcome to the Port of Humboldt Bay YouTube Channel. To learn more, go... >

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- VIDEOS
- PLAYLISTS
- CHANNELS
- ABOUT

- Subscriptions
- Music
  - Sports
  - Gaming
  - Movies & TV

## Videos



### Intro to Offshore Wind\_ Why, Who, How, Where, & When (long version)

250 views · 4 days ago

Introduction to offshore wind and a proposed project by the Humboldt Port Authority. Provides general background regarding floating offshore wind, the BOEM lease areas, wind turbines, shipping,...



[youtube.com/@humboldtбайharbordistrict](https://youtube.com/@humboldtбайharbordistrict)

# Project Objectives





# Project Objectives

- Contribute to solving climate change and SLR by supporting State/Fed goals.
- Clean up and redevelop a blighted site.
- Maritime/manufacturing jobs and economic development
- Provide revenue to the needs of Humboldt Bay
  - Deferred maintenance of facilities throughout the bay
  - Conservation and restoration
  - Recreation
  - Environmental education
  - Etc
- Other objectives outlined in the NOP



# Topics Not Covered in the Staff Report





# CEQA Notice Of Preparation – Scoping Comments

- NOP-related stakeholder meetings underway.
- 1st NOP public scoping meeting 7/12/23.
- 2nd NOP public scoping meeting 8/23/23 (neighborhood specific).
- NOP comment period closed @ 5pm on 8/25/23.
- The District receive 108 comment letters. [See project webpage.](#)
- Purpose of NOP comments is to help project team identify potential impacts that should be analyzed.
- There is no requirement (and no budget) to respond to each comment letter. 108
- We are in the process of categorizing each comment in each comment letter by CEQA category. Those comment-clusters are then shared with the Subject-matter Experts for each CEQA category. Noise, biological, TCR, etc
- We are working closely with the Tribes that submitted comments letters.



Accessibility Menu

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Search

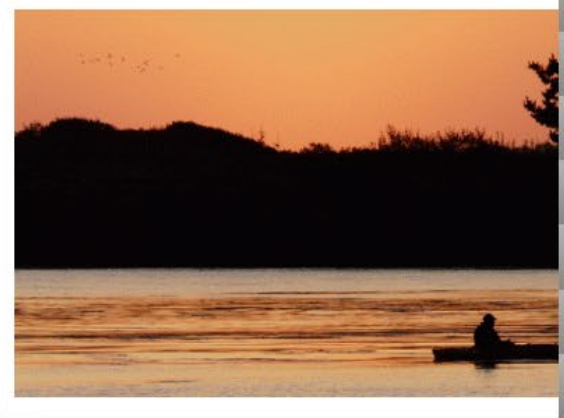
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Current Items



Request for Proposals: 2023 Woodley Island Marina Maintenance Dredging

Bid Packages are due by 2:00 p.m. PST on June 30, 2023

The Humboldt Bay Harbor, Recreation & Conservation District, 1000 Harbor Drive, Eureka, CA 95501, until 2:00 p.m. on Friday, the 30th day of June 2023 at the Woodley Island Marina in Eureka, California. An optional Pre-Bid Meeting will be held at the same location at 2:00 p.m. on Thursday, the 15th day of June 2023. Plans and other bid documents can be viewed at the address above during business hours.

RFP Package

- Offshore Wind Port Terminal Project
- Overview
- Foreign Trade Zone
- General Tariff
- U.S. Customs
- Facilities
- Shipping Terminals
- Fee Schedules
- Services
- Cruise Ship Schedule
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Recreation ▼

Conservation ▼

Harbor/Port ▼

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Contact

Offshore Wind Port Terminal Pro

Overview

Foreign Trade Zone

General Tariff

U.S. Customs

Facilities ▼

Shipping Terminals ▼



# Working with Tribal Governments

- We are participating in on-going meetings and conversations with seven different Tribal governments.
- We have now met with each of those Tribes in person, with many more meetings scheduled.
- This is an on-going and confidential process. We cannot disclose details of our conversations with Tribal governments unless a Tribe explicitly gives us permission to share their communications.
- The public has access to a few of the Tribes' NOP comments.
- All conversations to date have been candid, positive, and productive.



# Missing and Murdered Indigenous Peoples

- This is a topic of particular concern to several Tribes.
- We have received literature from Tribes and we are in the process of self-education on the topic.
- We are meeting with Tribes and learning from them.
- We have received a list of MMIP topics that we have been asked to consider incorporating into our project, which we are actively evaluating.
- Most (if not all) MMIP requests made by Tribes to date can be accommodated. We will take strong measures to prevent MMIP and sexual harassment/trafficking.

# Number of Construction Workers...

	Estimated <u>Average</u> Number of Employees On-site At Any Given Time				Estimated <u>Peak Maximum</u> Number of Employees On-site At Any Given Time			
	Not Including Delivery Drivers		Including Delivery/Hauling Drivers		Not Including Delivery Drivers		Including Delivery/Hauling Drivers	
	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH
<b>DURING CONSTRUCTION</b>								
Phase 0 only	14	20	18	26	14	20	18	26
Phase 1 only	27	39	39	56	80	116	98	142
Phases 0 & 1 simultaneously	24	36	34	50	80	116	98	142
Phases 0 - 2 simultaneously	35	51	43	63	91	132	109	158
Phases 0 - 3 simultaneously (no buildings)	52	76	62	90	118	171	136	197
Phases 0 - 3 simultaneously (with buildings)								
<b>DURING OPERATIONS</b>								
Phase 1 only								
Phases 1 & 2 simultaneously								
Phases 1 - 3 simultaneously (no buildings)								
Phases 1 - 3 simultaneously (with buildings)								

\* Assumes Phase 0 is indepent 3 month operation prior to start of Phase 1 to allow for access to site, this brings down average by about 2 people due to low "weight average"

\*\* Range of -10% to + 30% from estimated employees

**Estimated Peak Maximum Number of Employees On-site At Any Given Time**

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**Estimated Peak Maximum Number of Employees On-site At Any Given Time**

Not Including Delivery Drivers

Including Delivery/Hauling Drivers

# Estimated Peak Maximum Number of Employees On-site At Any Given Time

Not Including Delivery Drivers		Including Delivery/Hauling Drivers	
LOW	HIGH	LOW	HIGH
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80	116	98	142
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**Estimated Peak Maximum Number of Employees On-site At Any Given Time**

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# Recently Published Studies





# California Floating Offshore Wind Regional Ports Assessment





**FINAL REPORT**

July 7, 2023

# **AB 525 PORT READINESS PLAN**

**FINAL REPORT**



**CALIFORNIA  
STATE LANDS  
COMMISSION**



moffatt & nichol



## The Impacts of Developing a Port Network for Floating Offshore Wind Energy on the West Coast of the United States

Matt Shields,<sup>1</sup> Aubryn Cooperman,<sup>1</sup> Matilda Kreider,<sup>1</sup> Frank Oteri,<sup>1</sup> Zoe Hemez,<sup>1</sup> Liz Gill,<sup>1</sup> Ashesh Sharma,<sup>1</sup> Kyle Fan,<sup>1</sup> Walt Musial,<sup>1</sup> Matt Trowbridge,<sup>2</sup> Ashley Knipe,<sup>2</sup> and Jennifer Lim<sup>2</sup>

*1 National Renewable Energy Laboratory*

*2 Moffat and Nichol*

NREL is a national laboratory of the U.S. Department of Energy  
Office of Energy Efficiency & Renewable Energy  
Operated by the Alliance for Sustainable Energy, LLC

This report is available at no cost from the National Renewable Energy  
Laboratory (NREL) at [www.nrel.gov/publications](http://www.nrel.gov/publications).

Contract No. DE-AC36-08GO28308

Technical Report  
NREL/TP-5000-86864  
September 2023



# Green Terminal





# Green Terminal

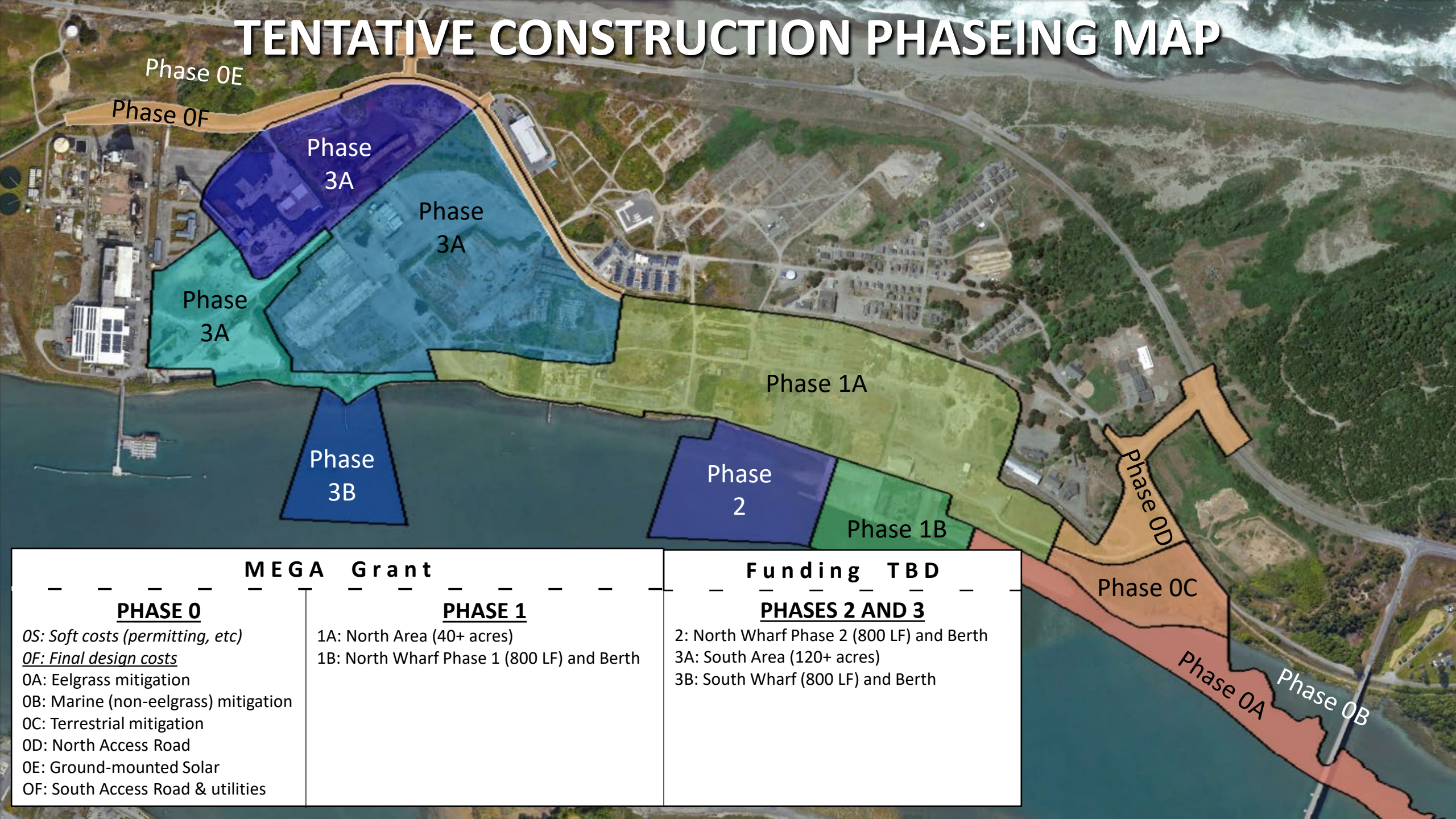
- The District has been working on this topic since March 2022.
- The District has the budget and a contract to complete the technical studies necessary to inform a “Green Terminal Strategy.”
- District staff are committed to developing a “Green Terminal.” To do otherwise would be illogical. This entire project is about addressing climate change.
- District staff recommends that the Board adopt a Resolution committing to a Green Terminal and/or Net Zero Terminal by a certain year.
- This is an evolving topic that is complex and highly technical. More information will come before the Board in the coming months.

# Project Phasing





# TENTATIVE CONSTRUCTION PHASEING MAP



**MEGA Grant**

**PHASE 0**

- 0S: Soft costs (permitting, etc)
- 0F: Final design costs
- 0A: Eelgrass mitigation
- 0B: Marine (non-eelgrass) mitigation
- 0C: Terrestrial mitigation
- 0D: North Access Road
- 0E: Ground-mounted Solar
- 0F: South Access Road & utilities

**PHASE 1**

- 1A: North Area (40+ acres)
- 1B: North Wharf Phase 1 (800 LF) and Berth

**Funding TBD**

**PHASES 2 AND 3**

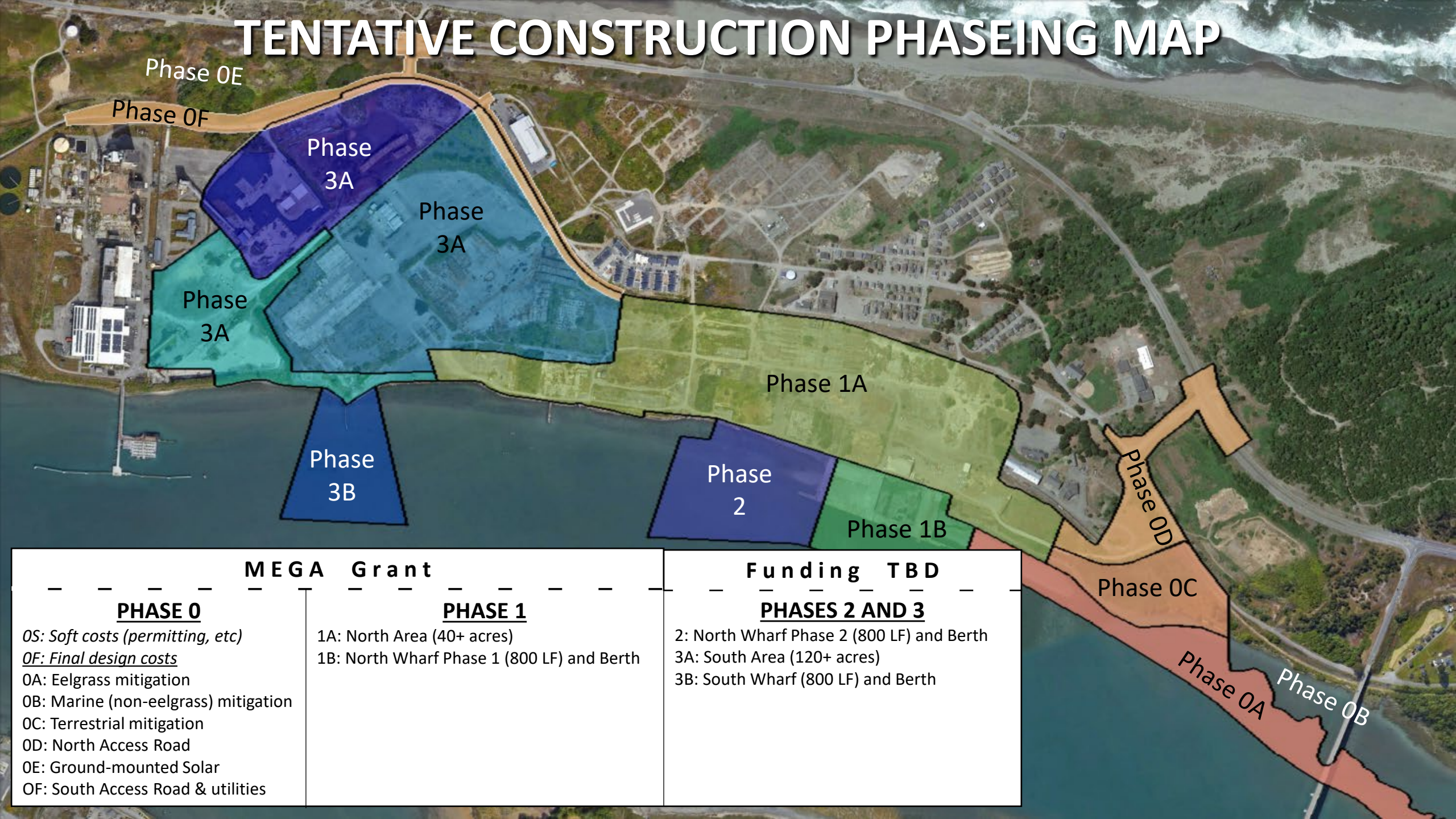
- 2: North Wharf Phase 2 (800 LF) and Berth
- 3A: South Area (120+ acres)
- 3B: South Wharf (800 LF) and Berth



# Phasing Map

- The phasing map corresponds to the schedule and budget.
- Phase 0 includes all mitigation, utility, and access components of the project that must be completed prior to the construction and operations of the actual development project (which consists of Phases 1 through 3).
- It is likely that manufacturing buildings would occur as a future “Phase 4”, though manufacturing buildings could be a part of Phase 3 depending on future funding opportunities.
- Phase 0 and Phase 1 are the only phases scheduled to be constructed at this time.

# TENTATIVE CONSTRUCTION PHASEING MAP



**MEGA Grant**

**Funding TBD**

**PHASE 0**

- OS: Soft costs (permitting, etc)
- OF: Final design costs
- OA: Eelgrass mitigation
- OB: Marine (non-eelgrass) mitigation
- OC: Terrestrial mitigation
- OD: North Access Road
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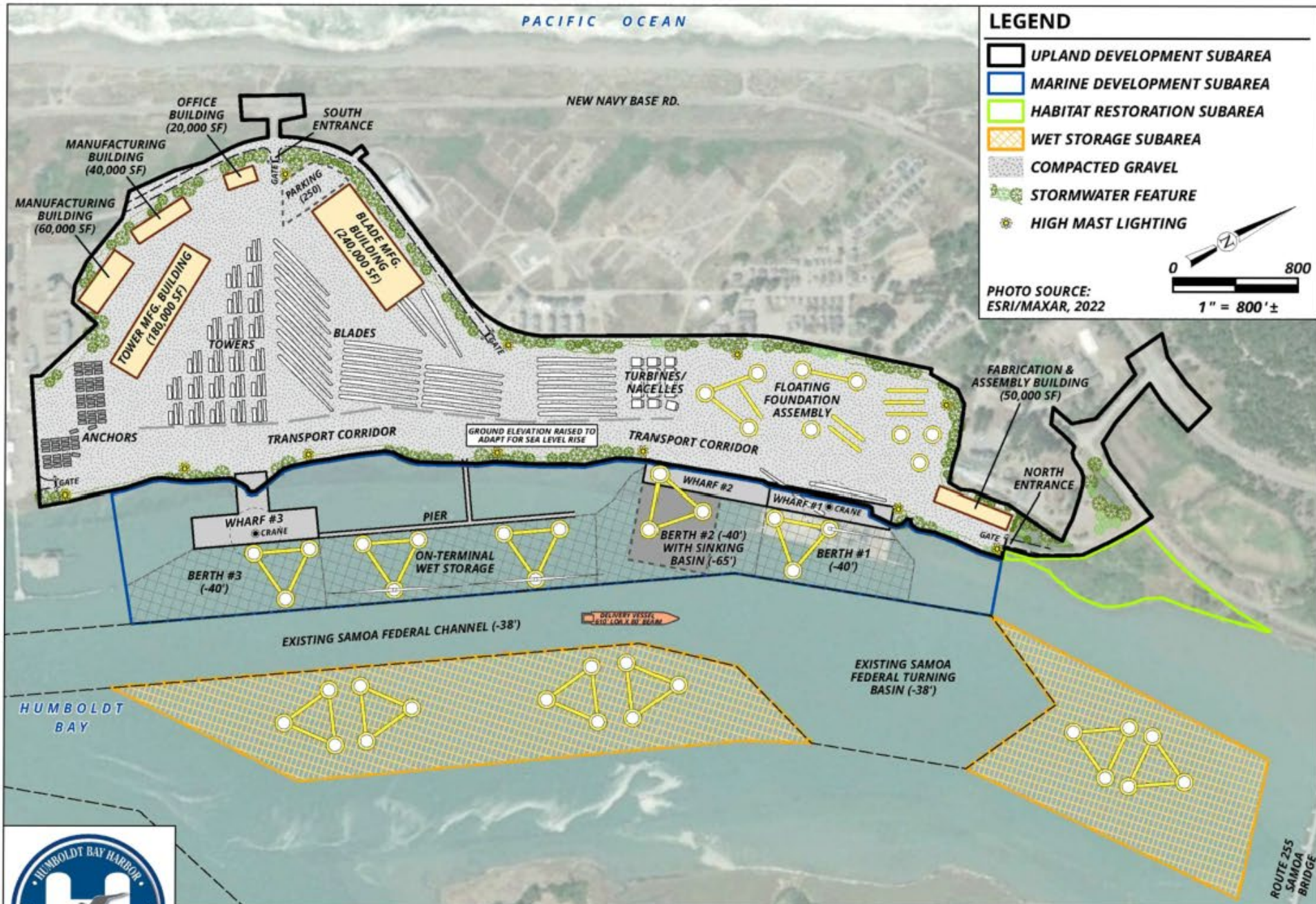
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PACIFIC OCEAN

NEW NAVY BASE RD.

### LEGEND

- UPLAND DEVELOPMENT SUBAREA
- MARINE DEVELOPMENT SUBAREA
- HABITAT RESTORATION SUBAREA
- WET STORAGE SUBAREA
- COMPACTED GRAVEL
- STORMWATER FEATURE
- \* HIGH MAST LIGHTING

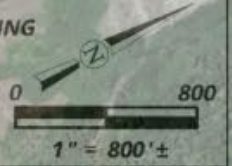
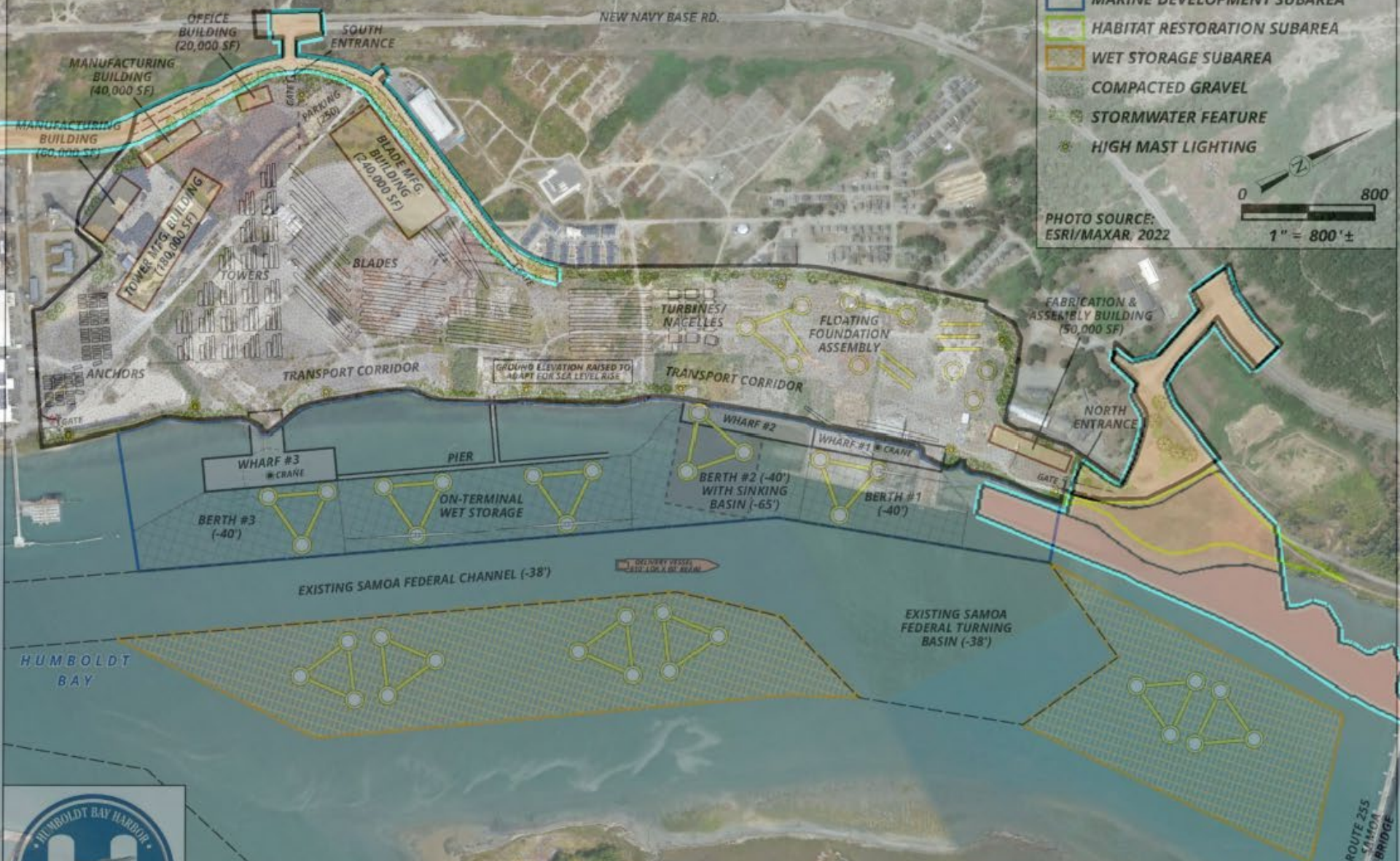


PHOTO SOURCE:  
ESRI/MAXAR, 2022







Phase 0E

Phase 0F

Phase 0D

Phase 0C

Phase 0A

Phase 0B





PACIFIC OCEAN

NEW NAVY BASE RD.

### LEGEND

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- MARINE DEVELOPMENT SUBAREA
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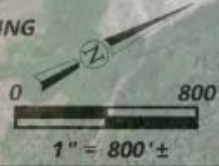
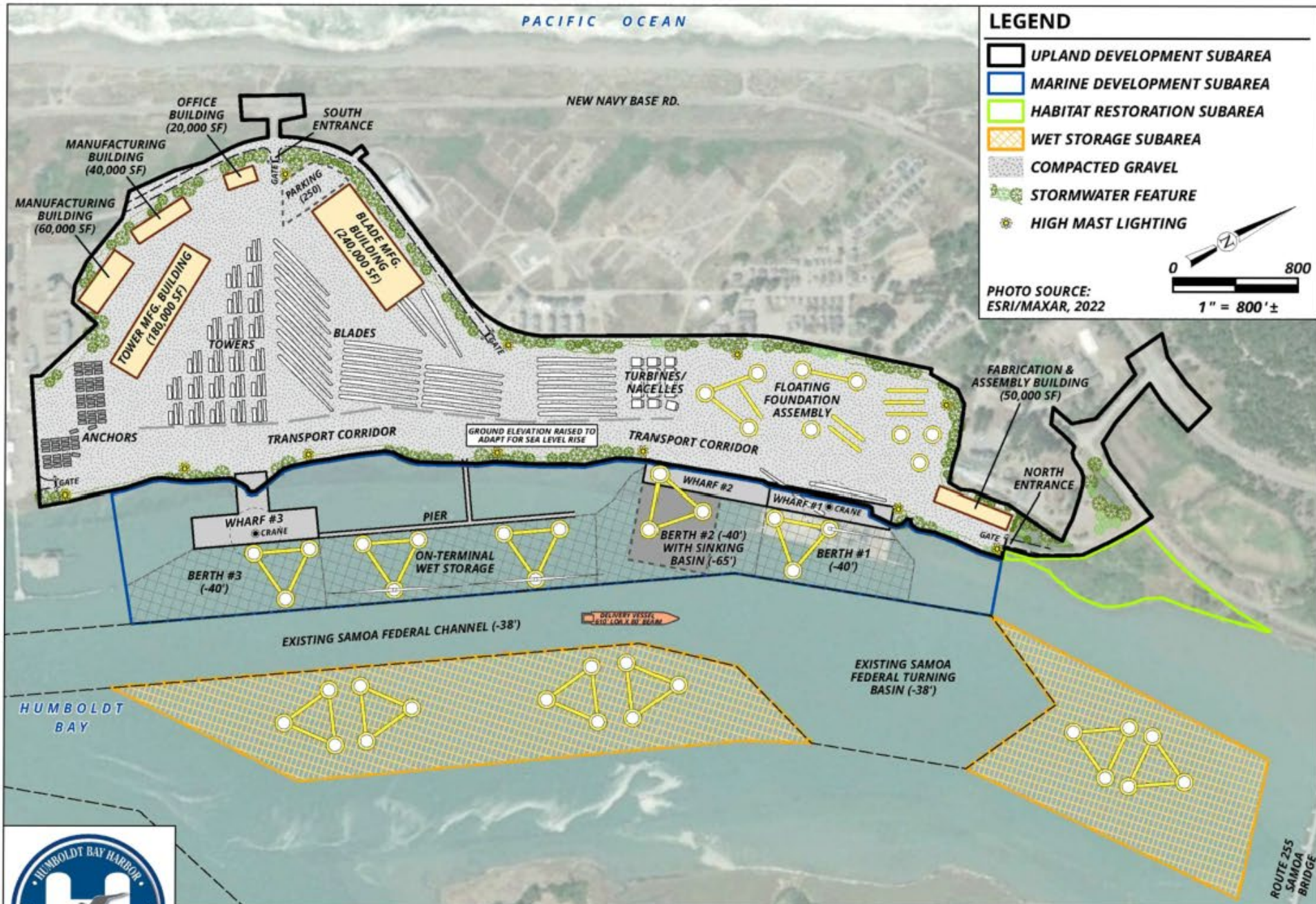


PHOTO SOURCE:  
ESRI/MAXAR, 2022











ROUTE 255  
SAMOA  
BRIDGE





Phase 1a

Phase 1b



# MEGA Grant Application







Phase 4?

Phase 3

Phase 2



# Project Funding and Budget





# Summary of Pending Grants

- Port Infrastructure Development Program (PIDP) 2023

- Grant agency = Federal MARAD
- Grant request = \$8,672,986
- Committed CEC match = \$2,253,074
- Submitted in April of 2023

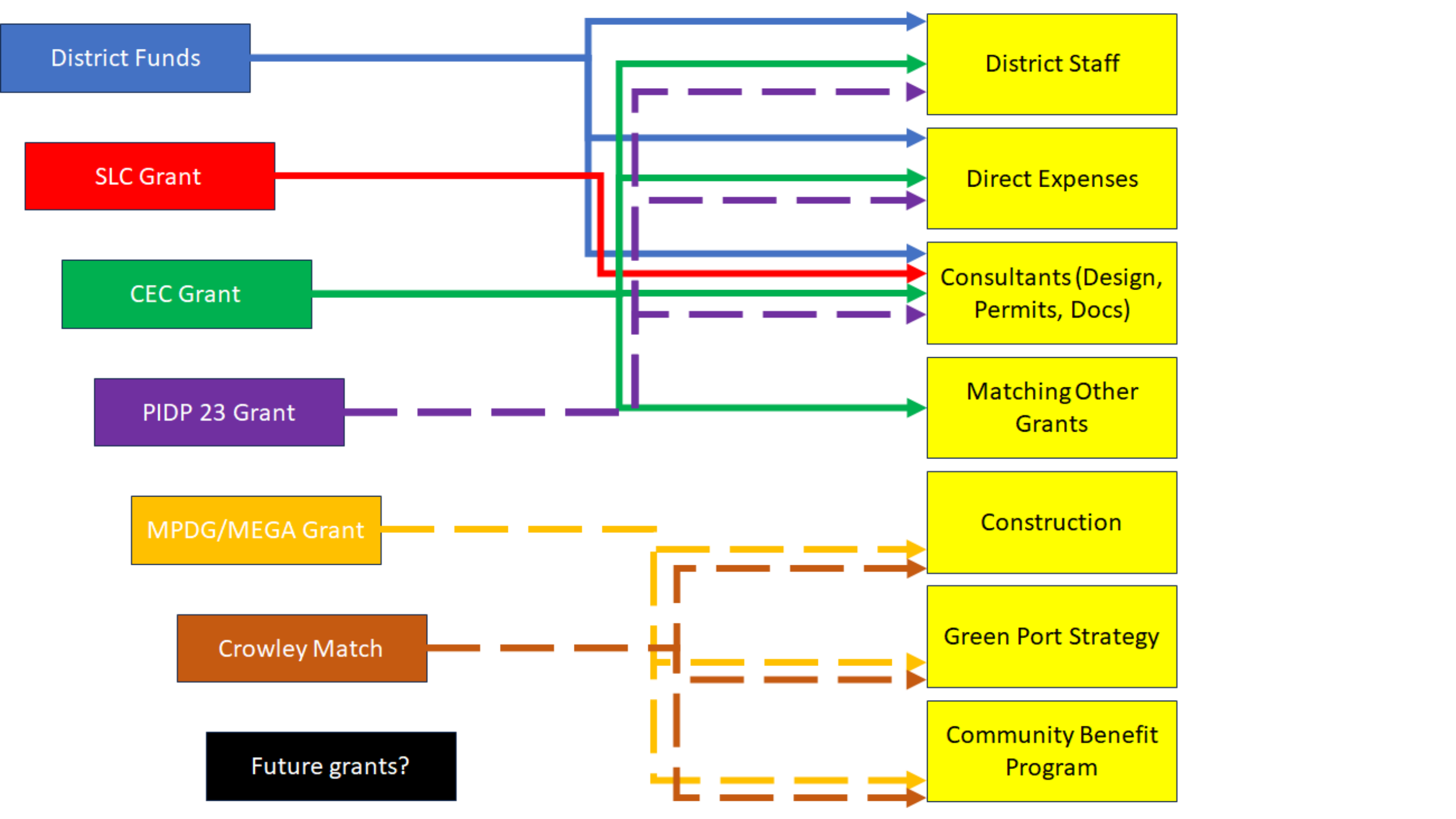
} Remaining soft costs

- Multimodal Project Discretionary Grant Opportunity (MPDG) Program (MPDG) 2023 (also known as MEGA grant)

- Grant agency = Federal DOT
- Grant request = \$426,719,810
- Committed CEC match = \$6,672,266
- Committed Crowley match = \$415,547,678
- Submitted in August of 2023

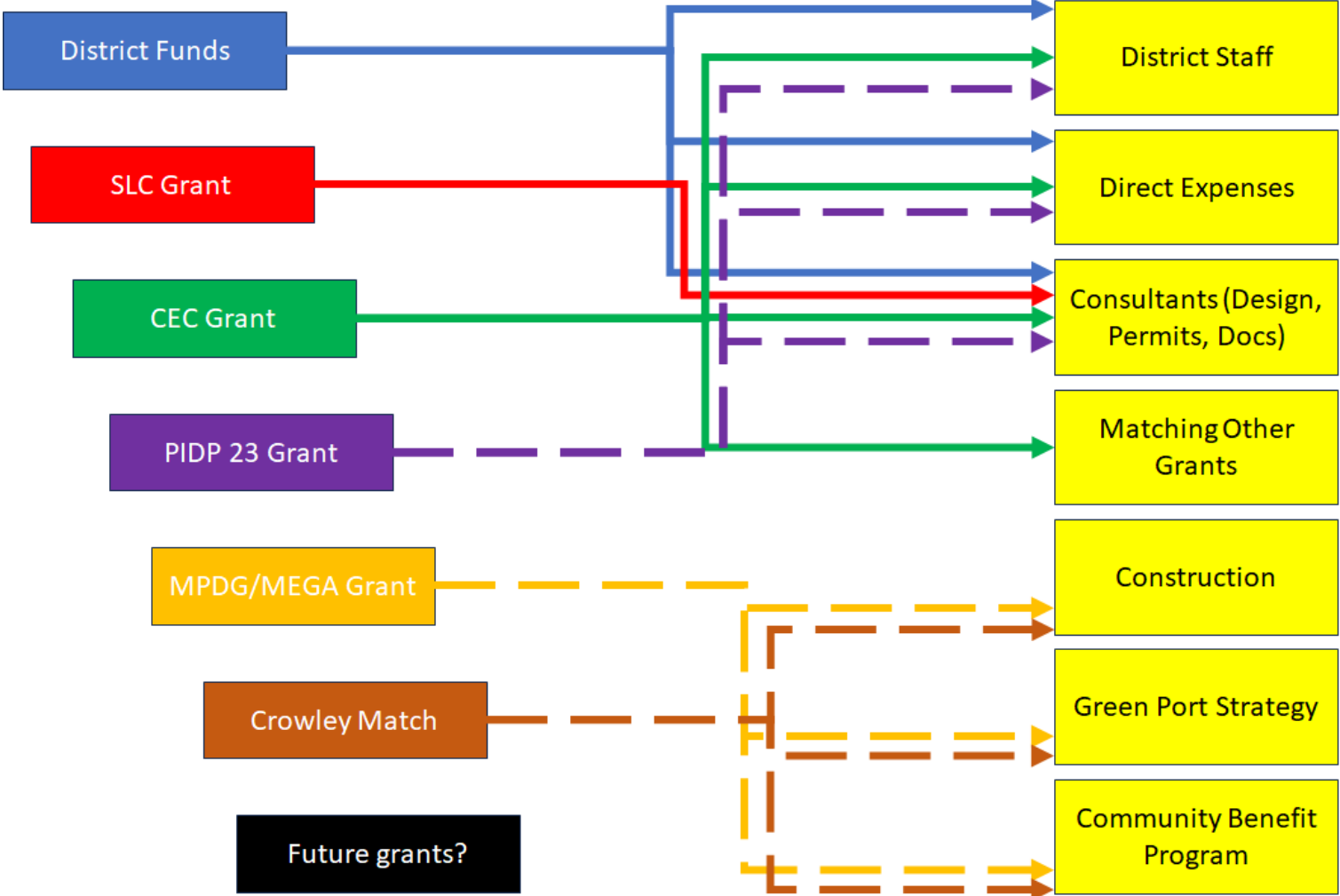
} Construction costs (Phase 1)



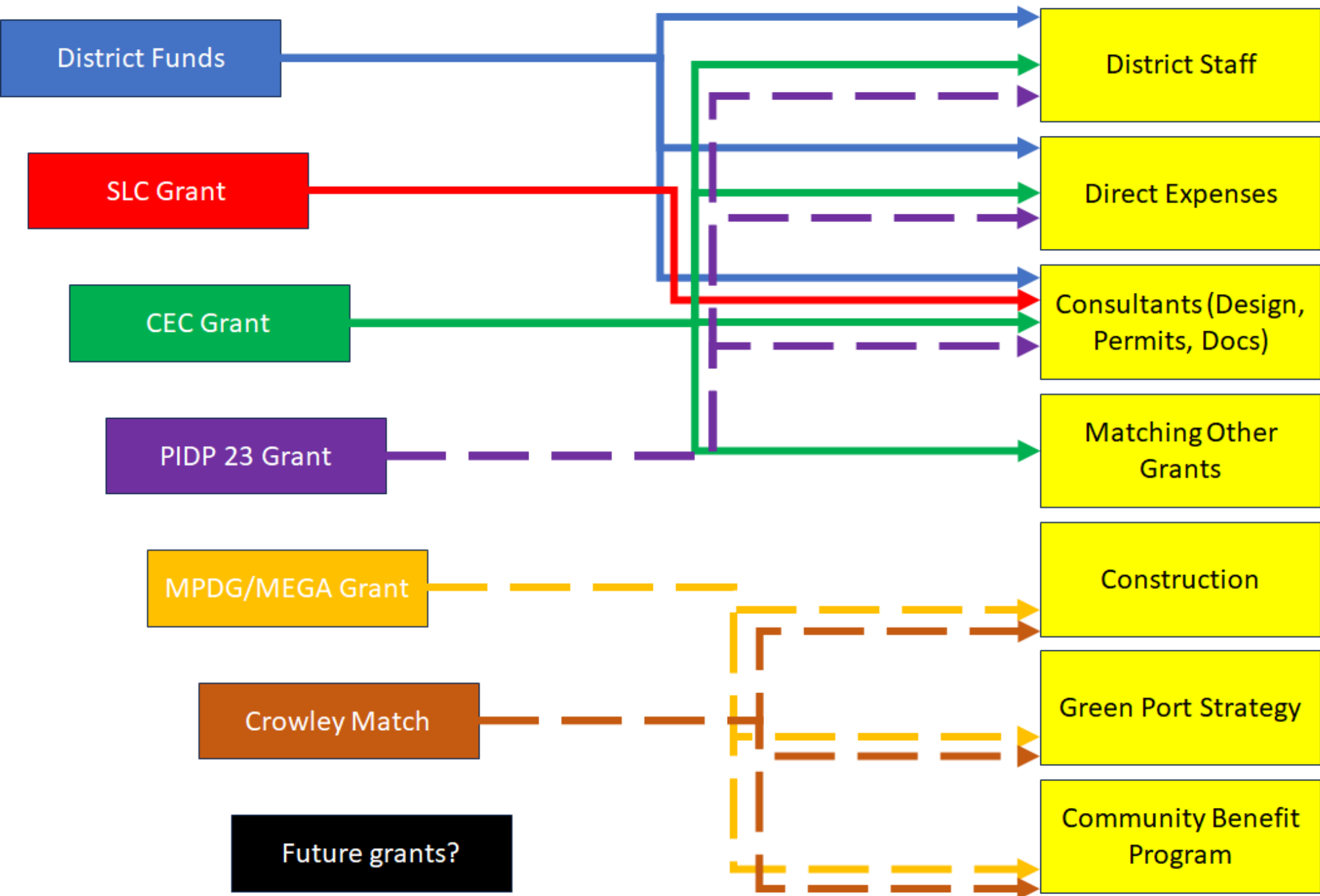


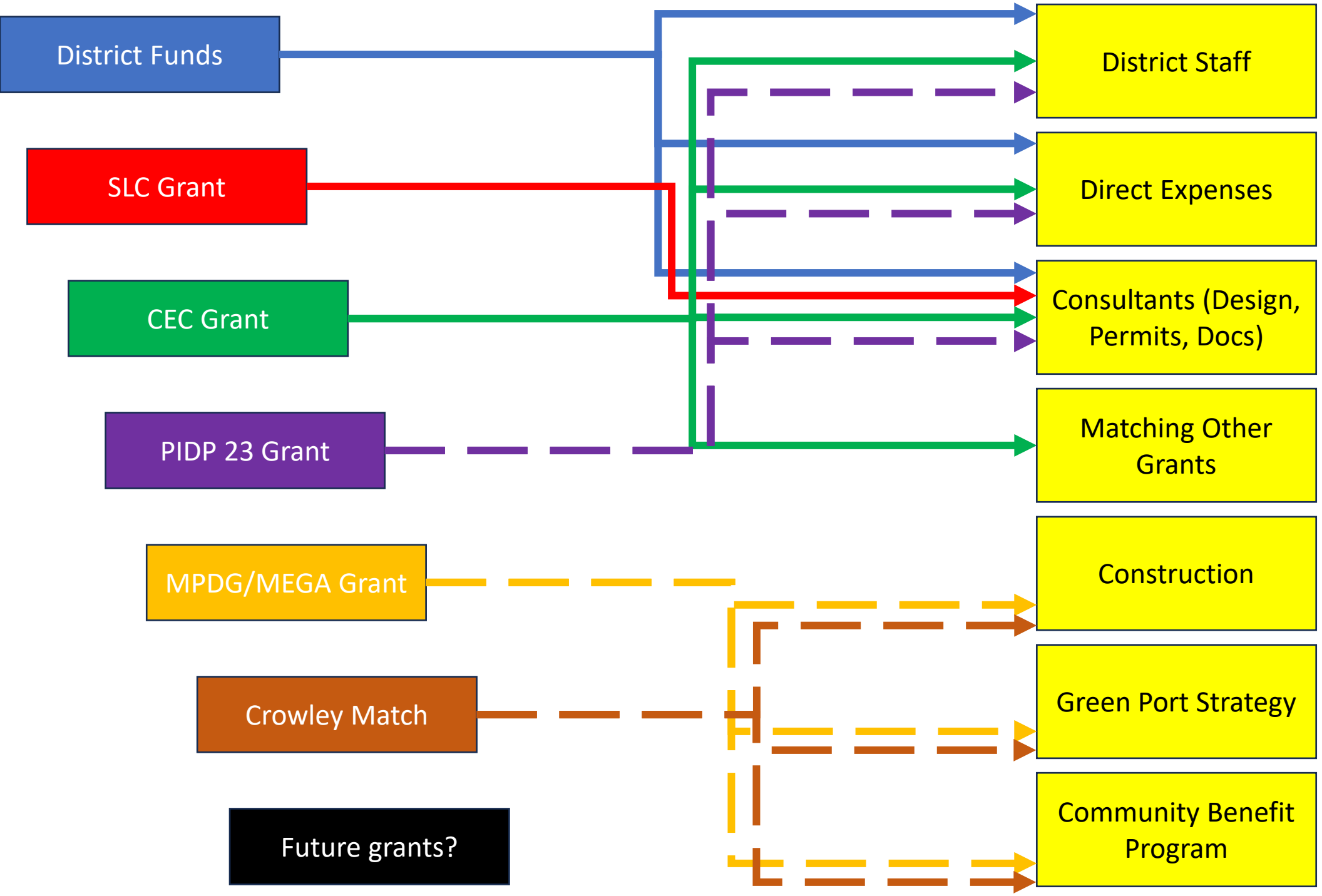
# FUNDING SOURCES

# EXPENSES

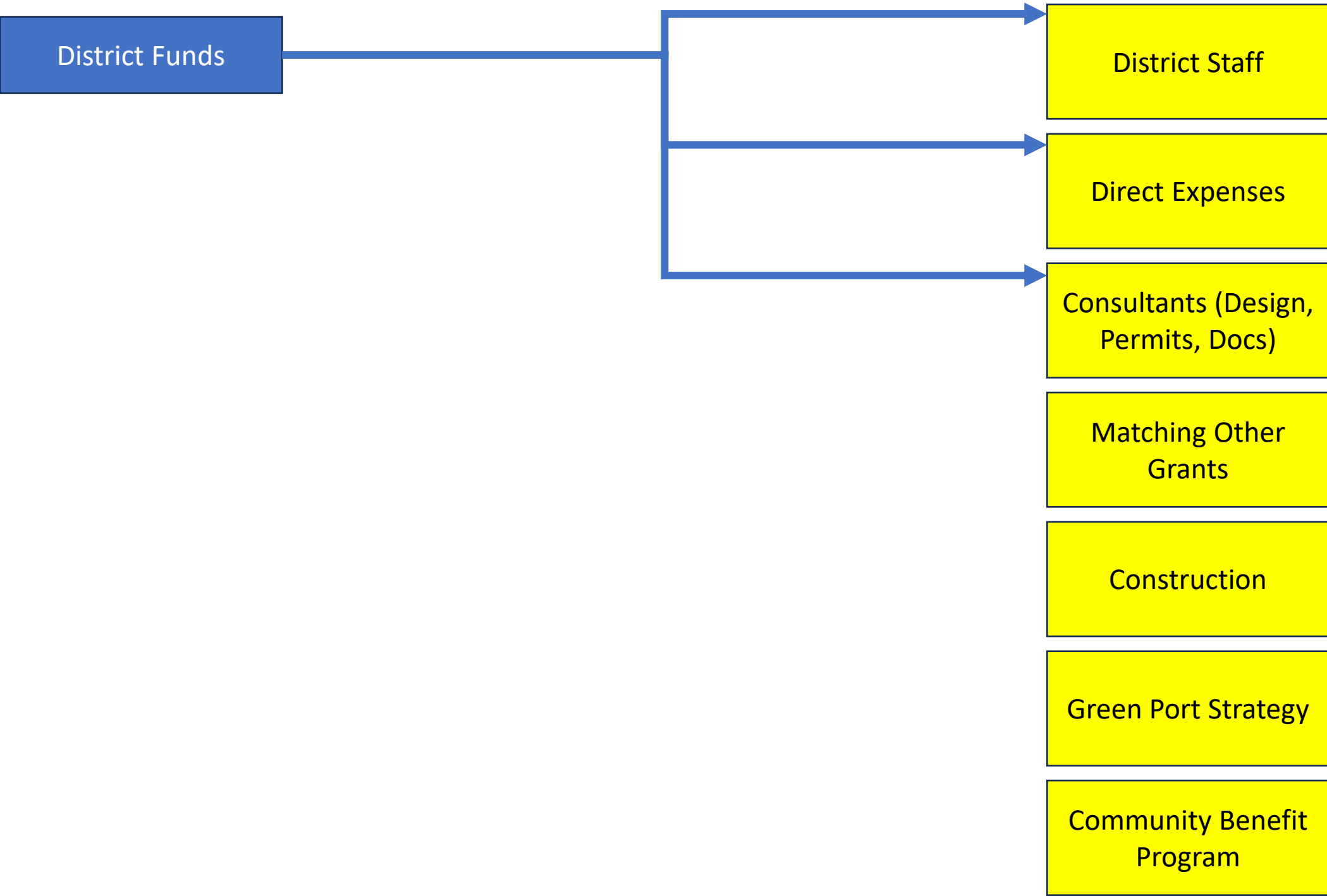












District Funds

District Staff

Direct Expenses

Consultants (Design,  
Permits, Docs)

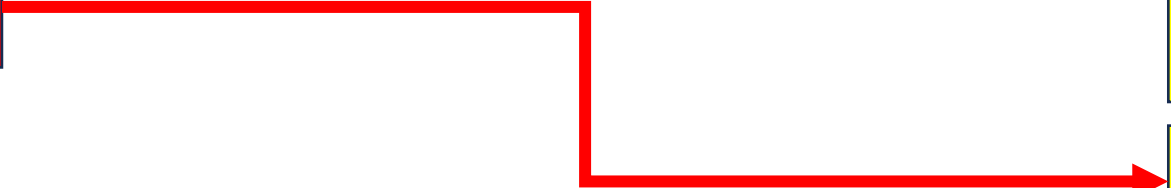
Matching Other  
Grants

Construction

Green Port Strategy

Community Benefit  
Program

SLC Grant



District Staff

Direct Expenses

Consultants (Design, Permits, Docs)

Matching Other Grants

Construction

Green Port Strategy

Community Benefit Program



CEC Grant

District Staff

Direct Expenses

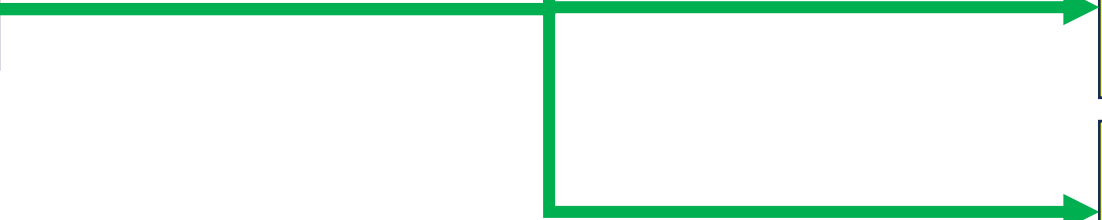
Consultants (Design,  
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Matching Other  
Grants

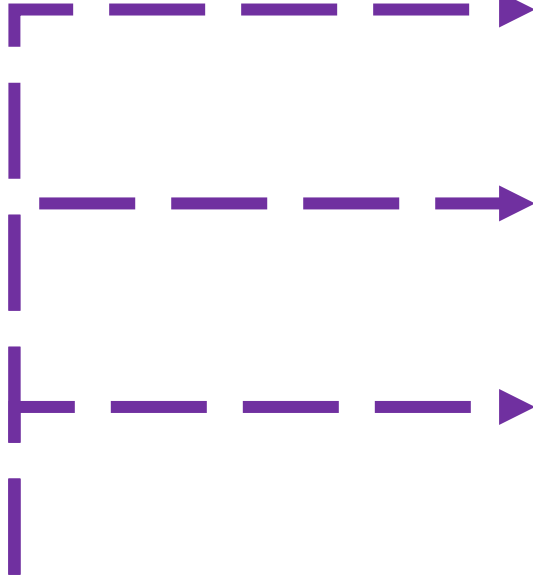
Construction

Green Port Strategy

Community Benefit  
Program



PIDP 23 Grant



District Staff

Direct Expenses

Consultants (Design, Permits, Docs)

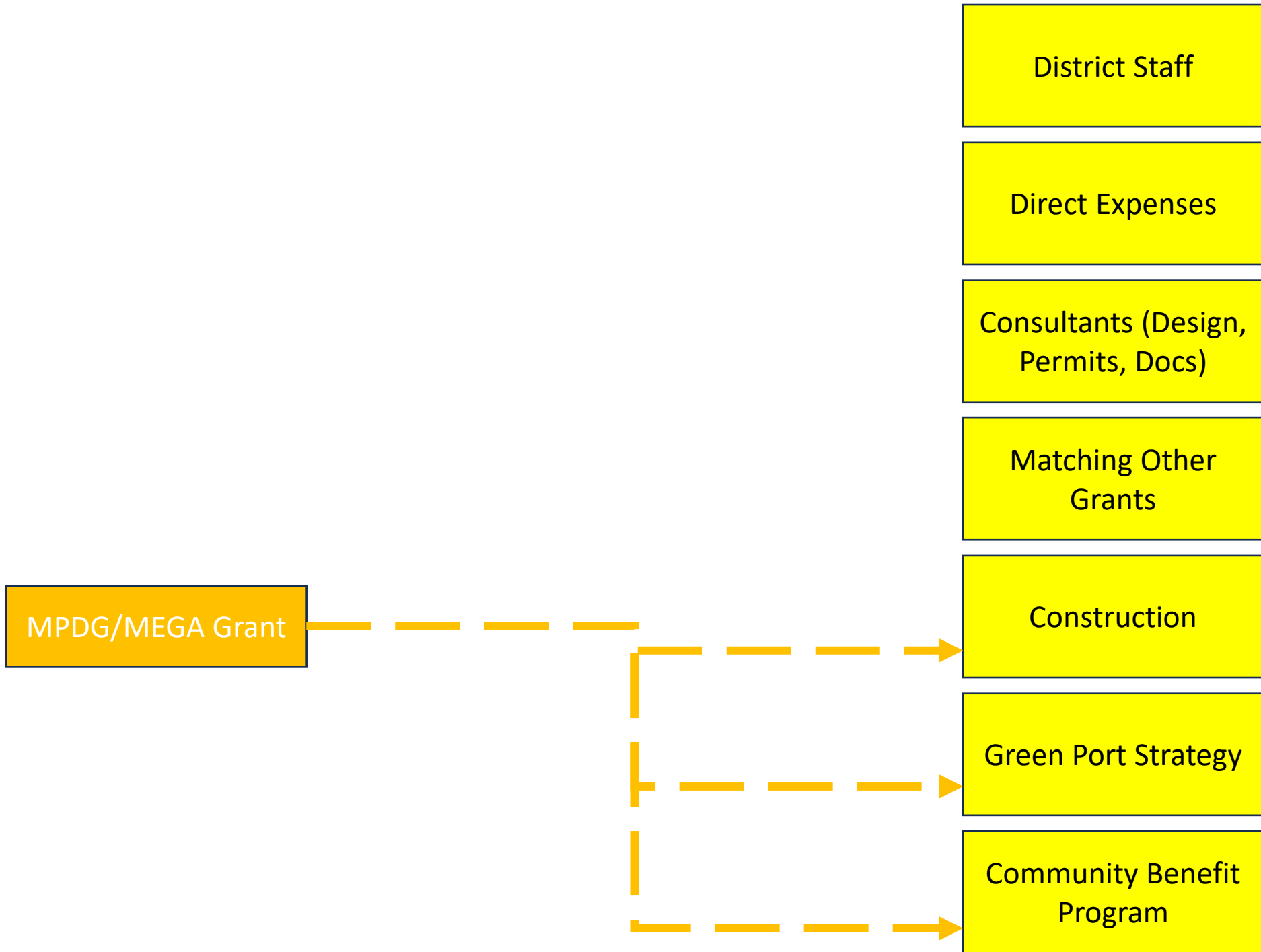
Matching Other Grants

Construction

Green Port Strategy

Community Benefit Program





Crowley Match

District Staff

Direct Expenses

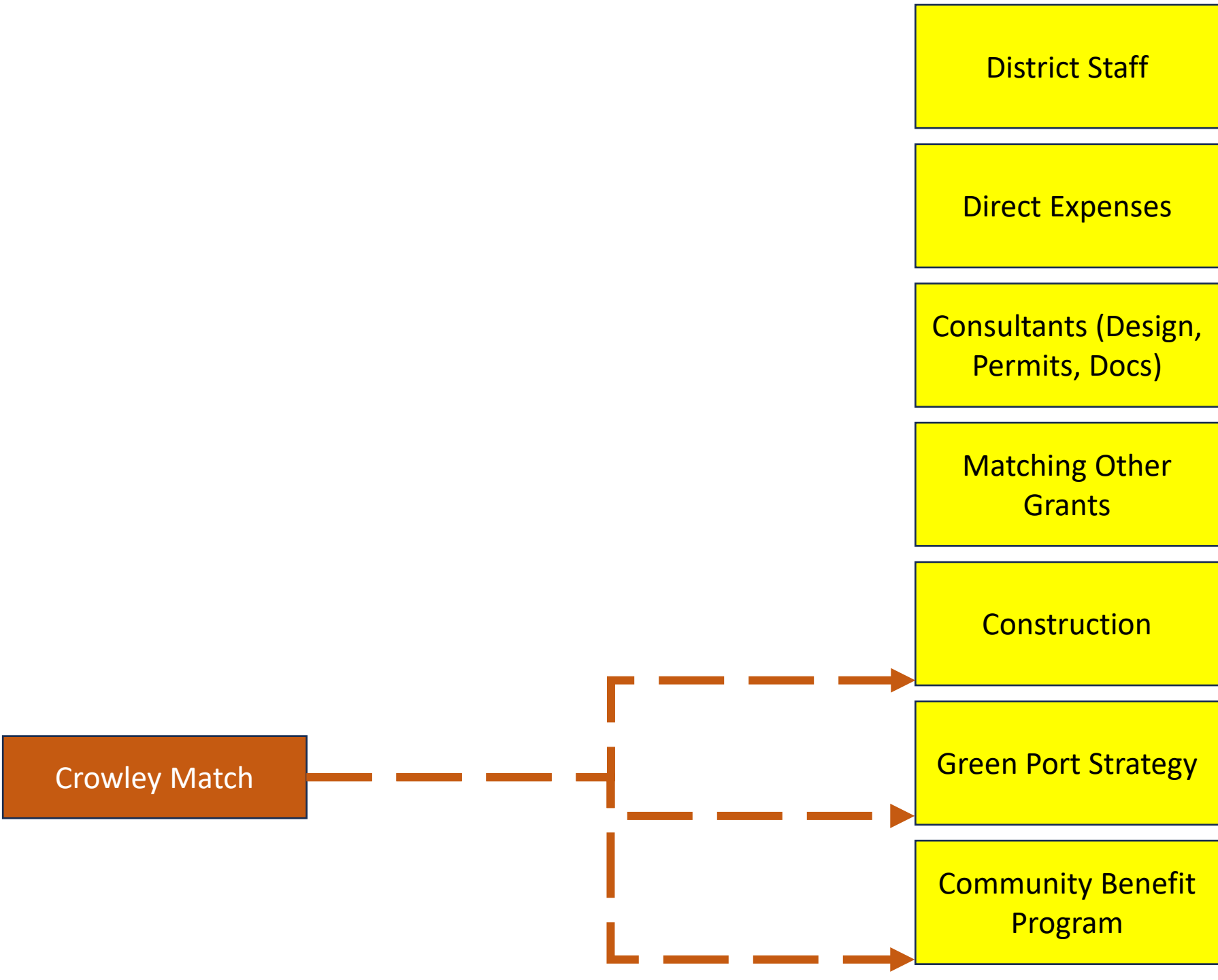
Consultants (Design,  
Permits, Docs)

Matching Other  
Grants

Construction

Green Port Strategy

Community Benefit  
Program





Future grants?

District Staff

Direct Expenses

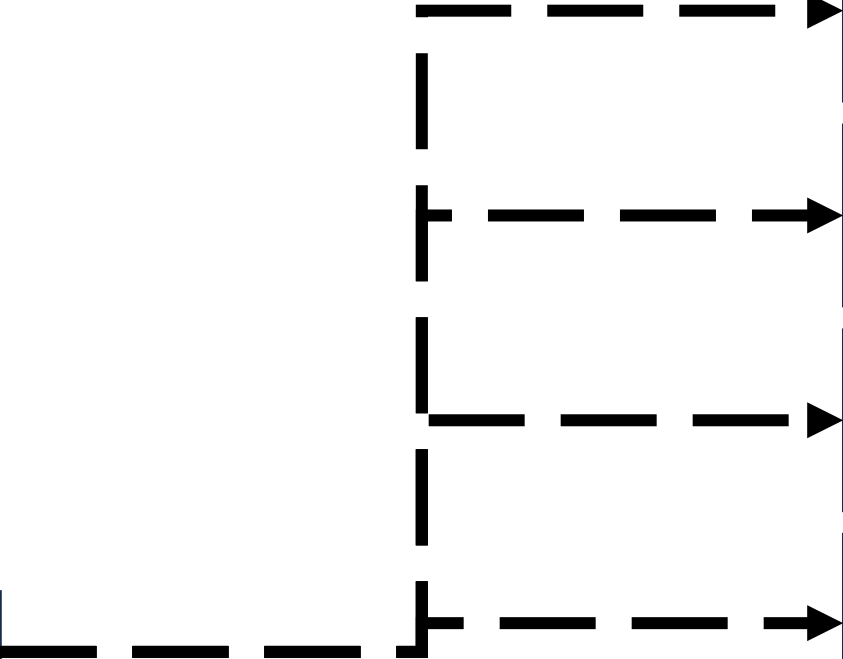
Consultants (Design, Permits, Docs)

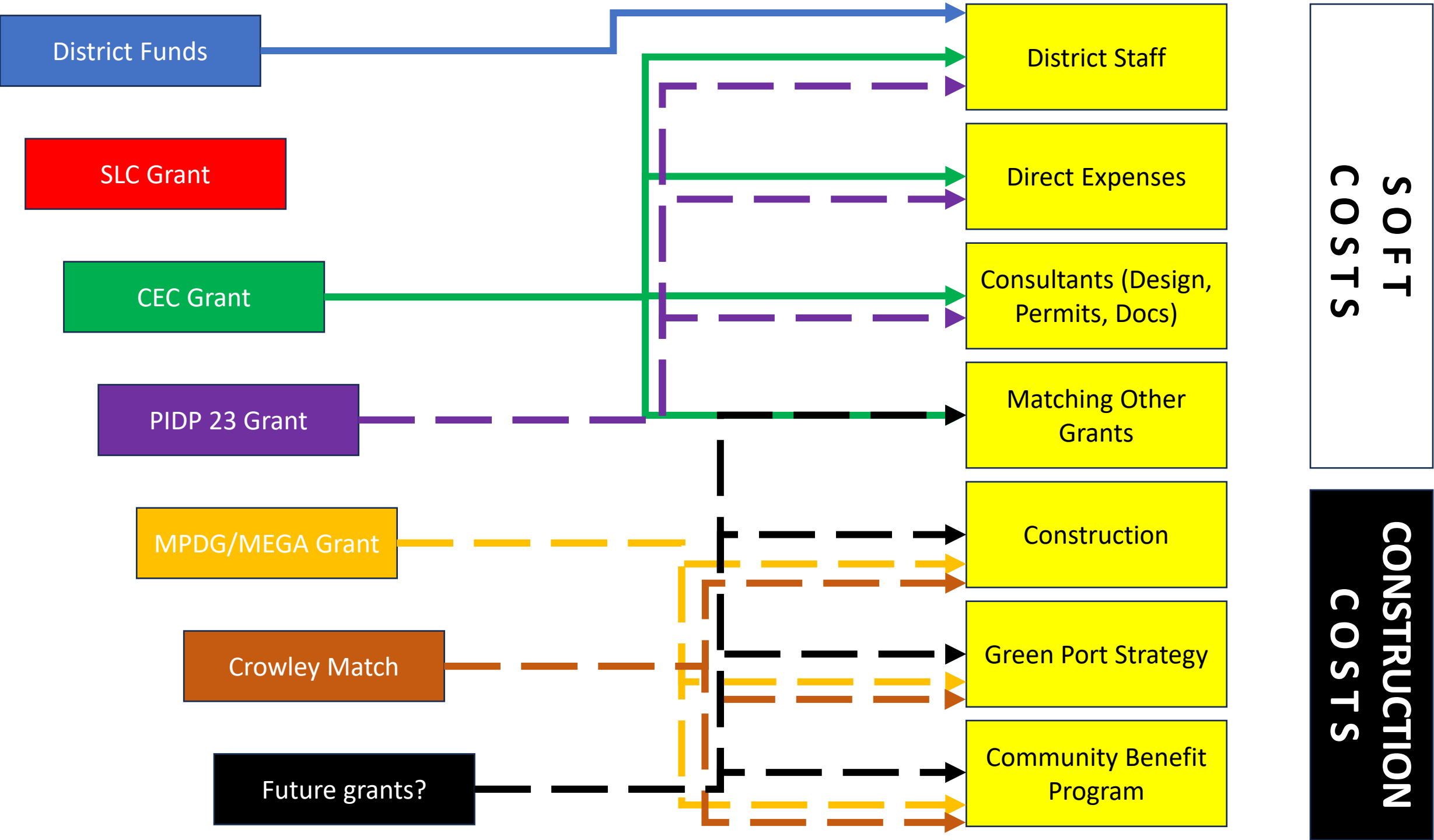
Matching Other Grants

Construction

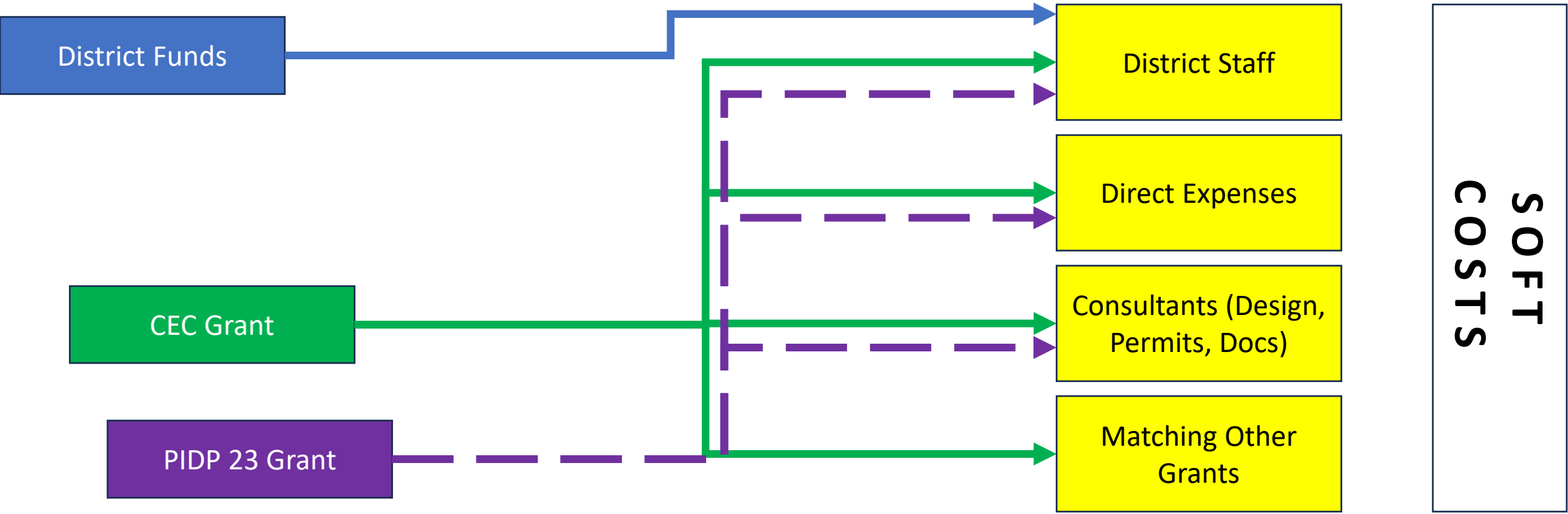
Green Port Strategy

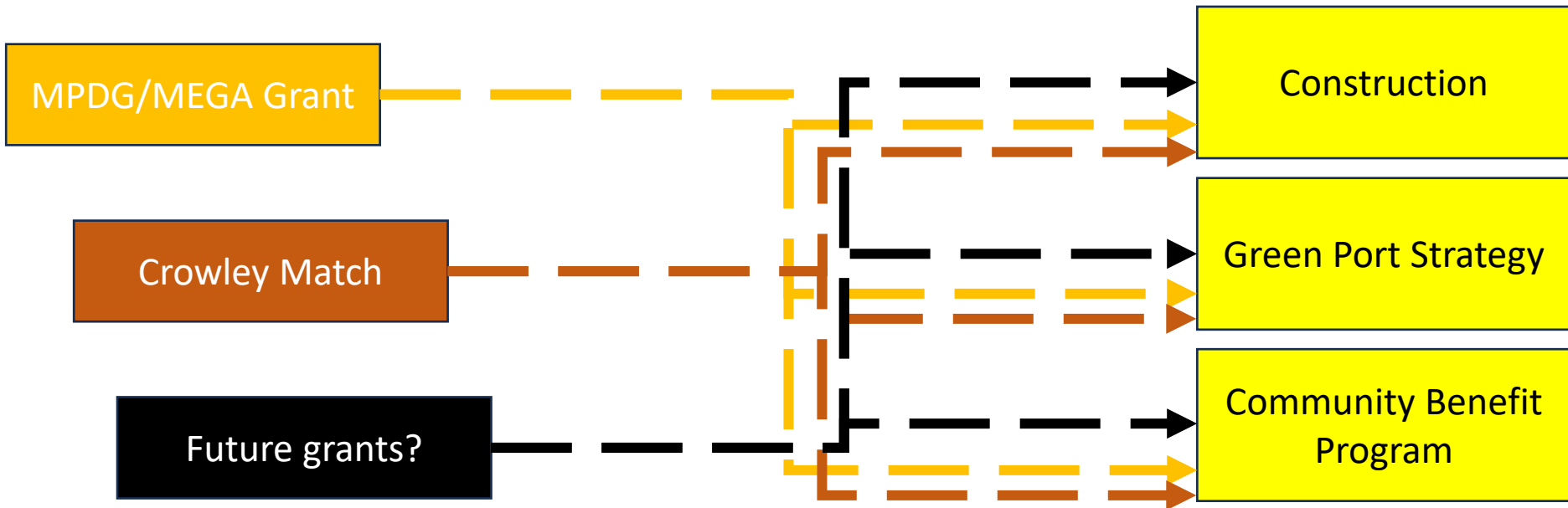
Community Benefit Program





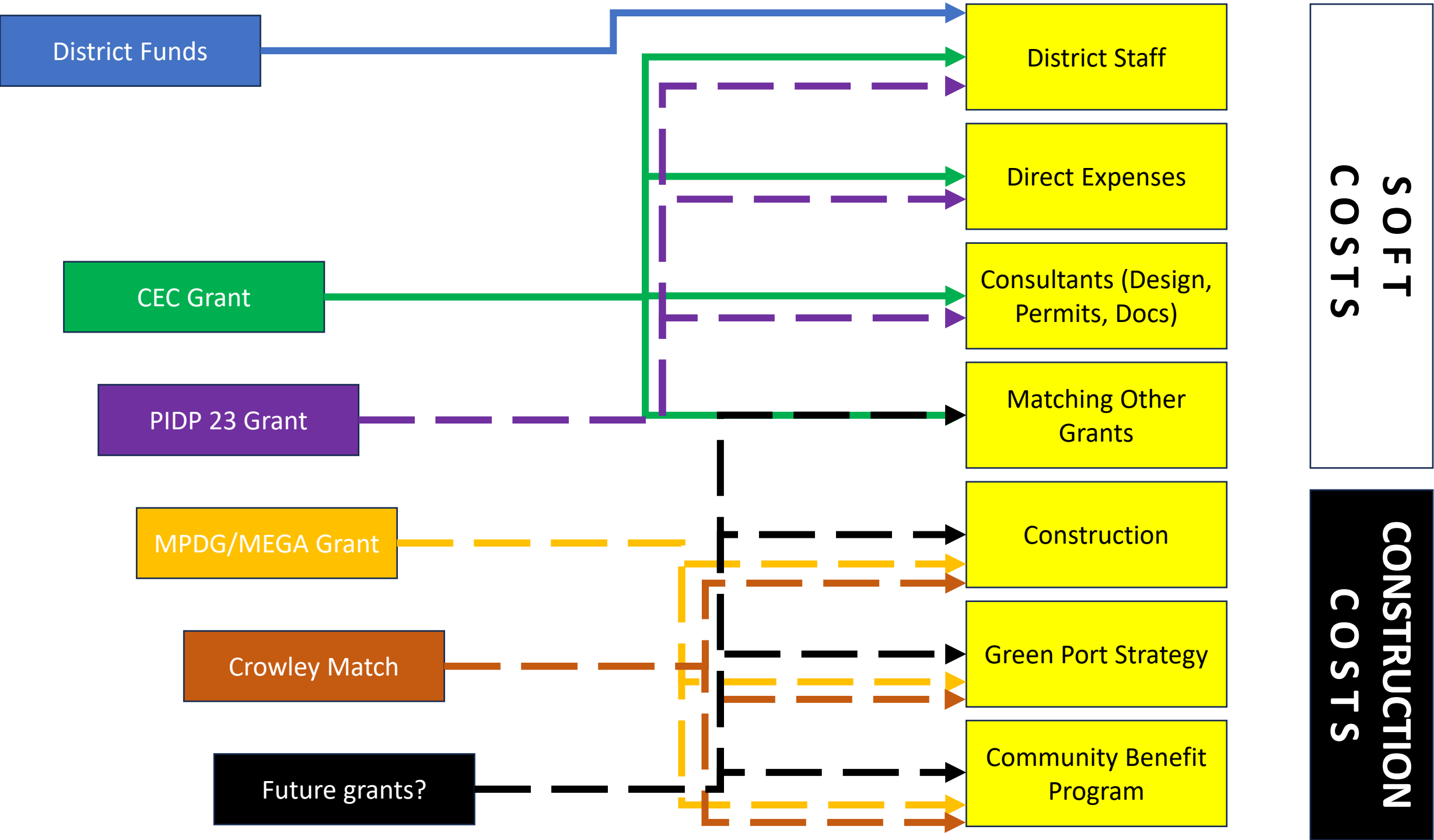


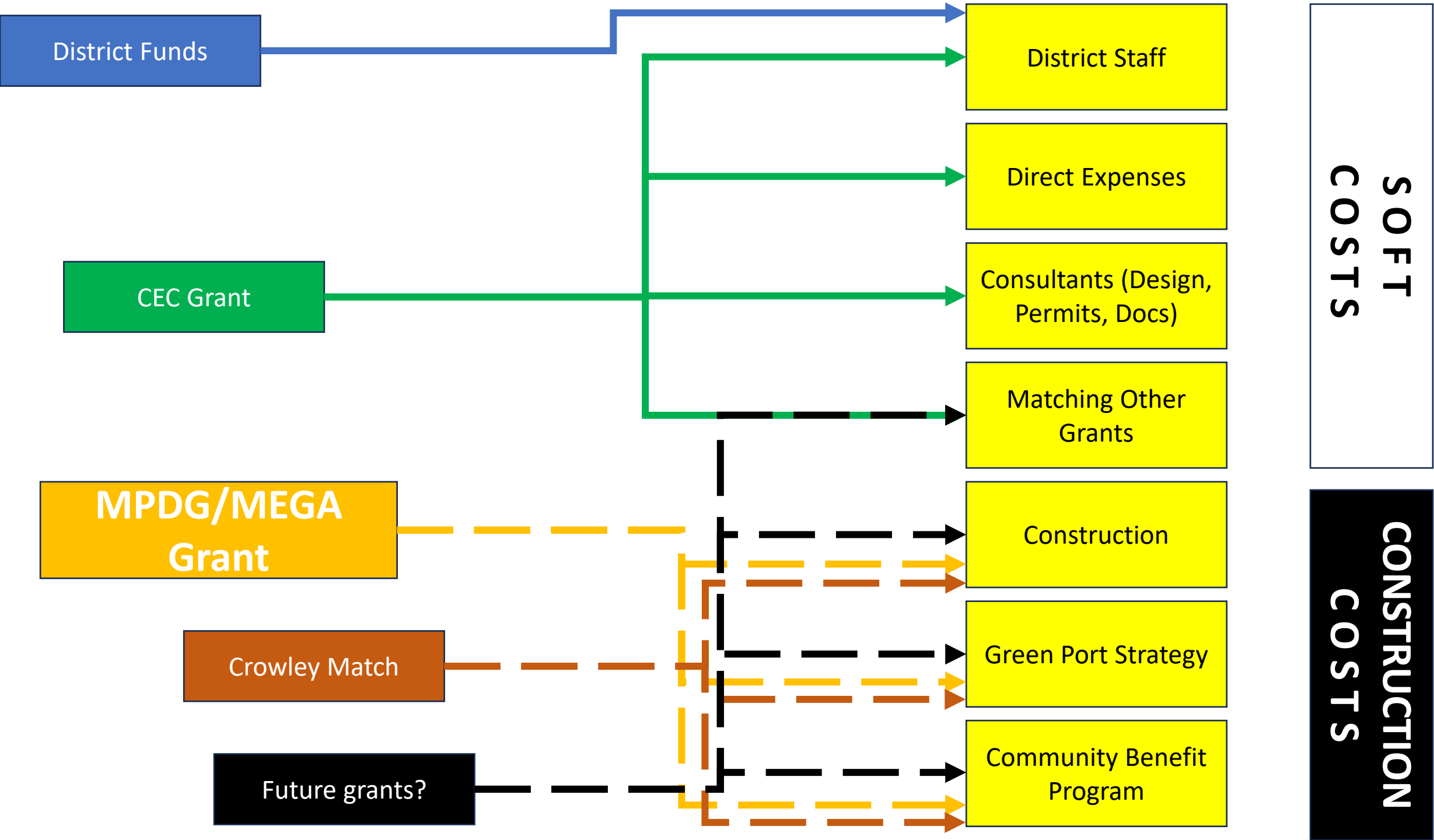




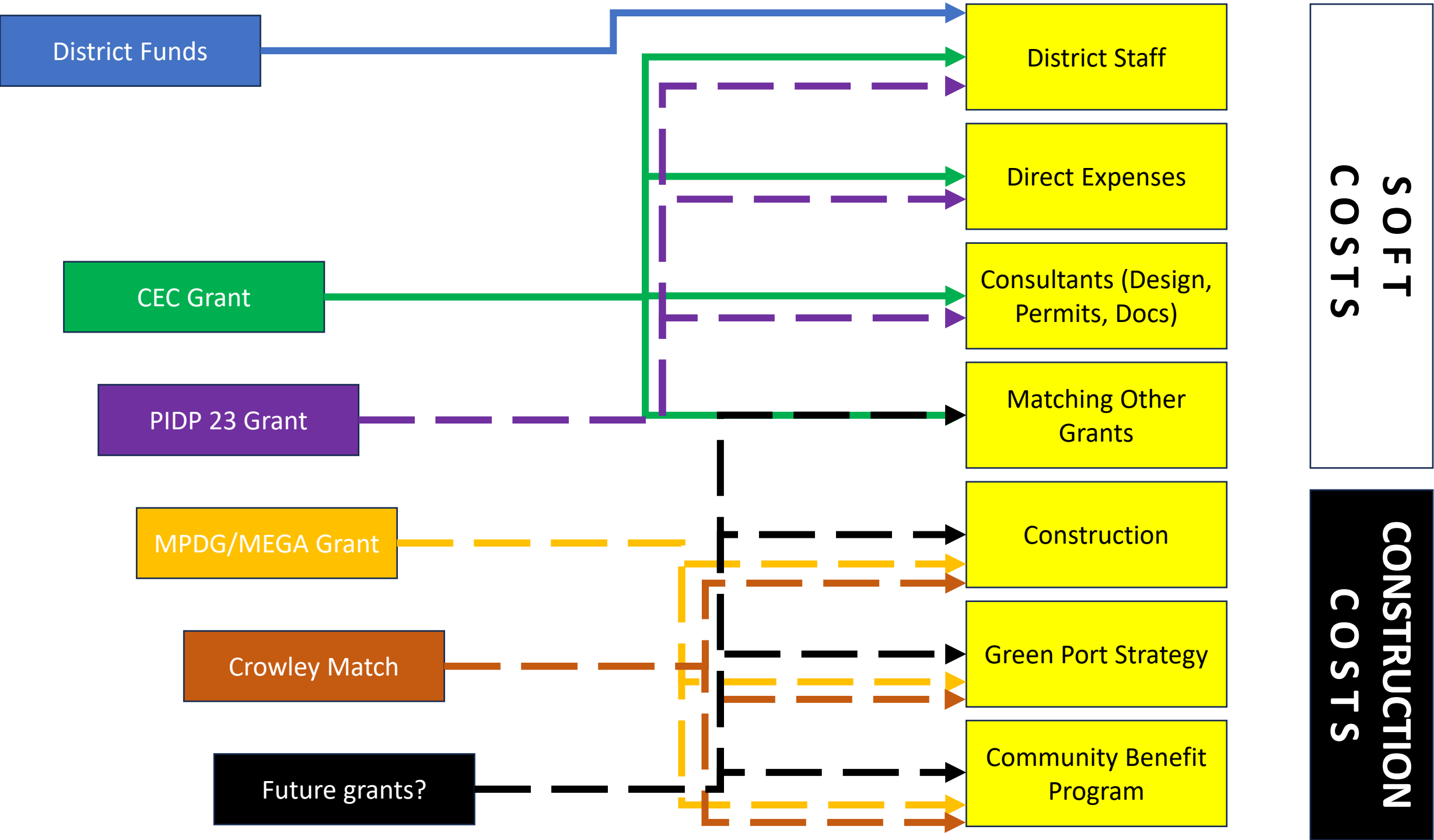
**CONSTRUCTION COSTS**

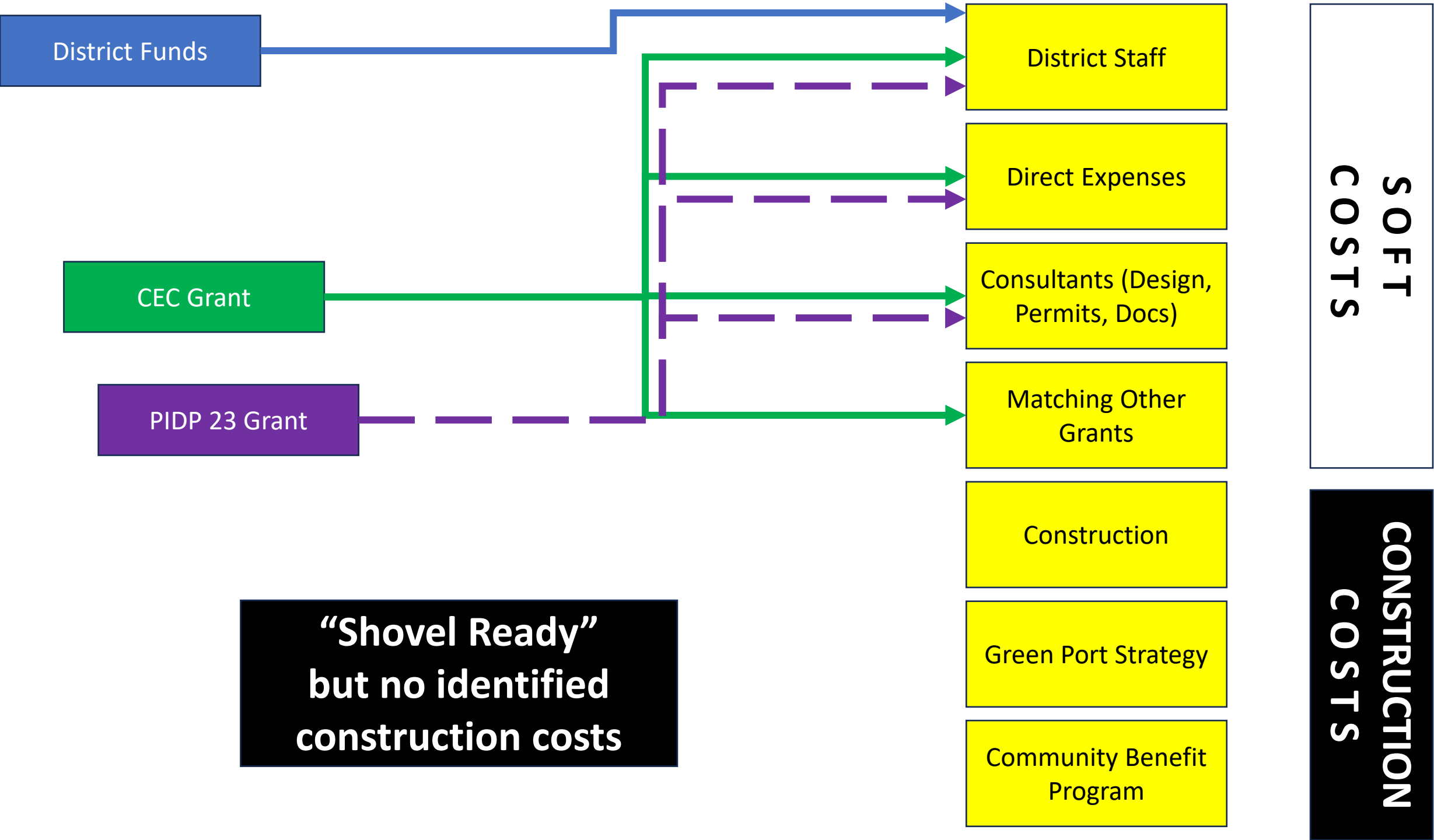












District Funds

CEC Grant

PIDP 23 Grant

District Staff

Direct Expenses

Consultants (Design, Permits, Docs)

Matching Other Grants

Construction

Green Port Strategy

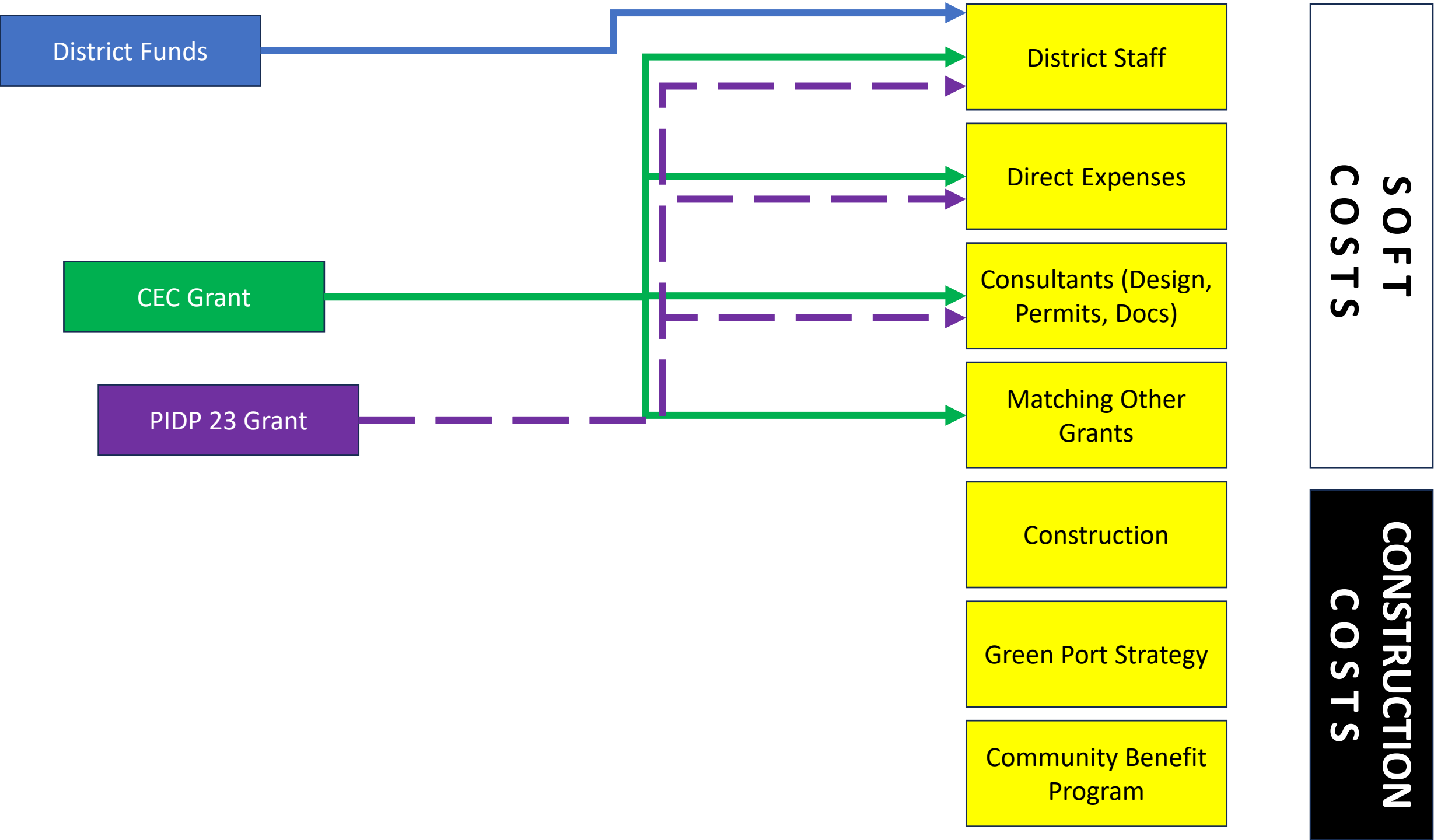
Community Benefit Program

SOFT COSTS

CONSTRUCTION COSTS

**“Shovel Ready”  
but no identified  
construction costs**





District Funds

CEC Grant

PIDP 23 Grant

District Staff

Direct Expenses

Consultants (Design, Permits, Docs)

Matching Other Grants

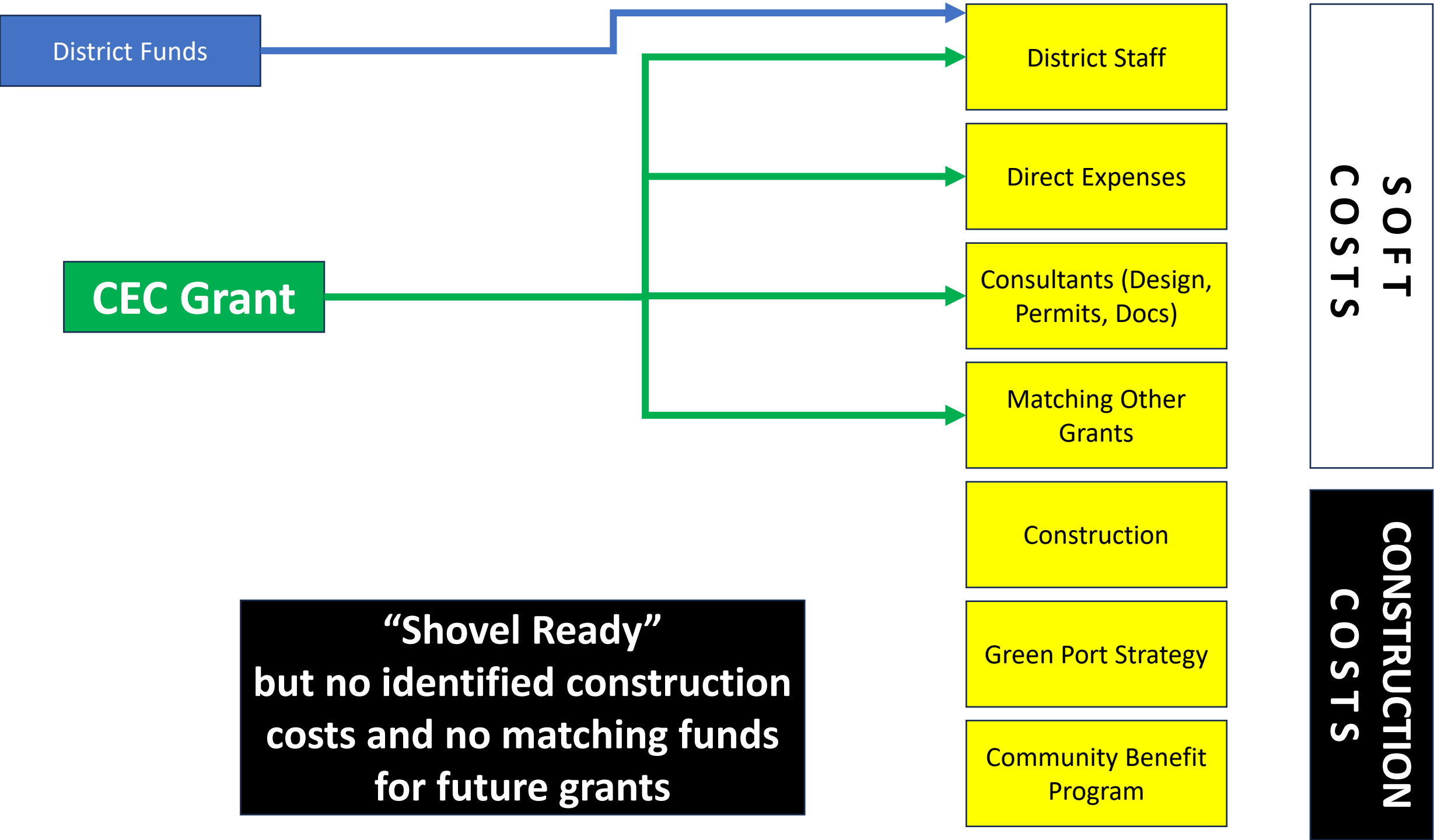
Construction

Green Port Strategy

Community Benefit Program

SOFT COSTS

CONSTRUCTION COSTS



District Funds

**CEC Grant**

District Staff

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Construction

Green Port Strategy

Community Benefit Program

**SOFT COSTS**

**CONSTRUCTION COSTS**

**“Shovel Ready”  
but no identified construction costs and no matching funds for future grants**



# Funding Plan and Backup Plans

- **Plan A:** Receive PIDP and MEGA grants – proceed to construction of Phase 1
- **Plan B:** Receive MEGA grant, but not PIDP – proceed to construct Phase 1
- **Plan C:** Receive PIDP grant, but not MEGA – project is shovel ready, but we need funding for construction of Phase 1 and we have some CEC matching funds.
- **Plan D:** Do not receive PIDP or MEGA grants. Utilize remaining CEC funds for remaining soft costs – project is shovel ready, but we need funding for construction of Phase 1 and we do not have any matching funds.

# Budget Status

- Project budget is not the same as construction cost estimate.
- Project is on-budget.
- Reimbursements from SLC complete.
- Reimbursements from CEC has been timely and easy to process.



# Project Schedule





# HUMBOLDT BAY OFFSHORE WIND HEAVY LIFT MARINE TERMINAL: PROJECT TIMELINE (as of Q4 2023)

Work Category	Project Task	2023				2024				2025				2026				2027				2028				2029			
		Jun	Jul	Aug	Sep	Oct	Nov	Dec	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Consultant Coordination	Intensive Design Workshops		TA-3		TA-3		TA-3		TA-5		TA-5		TA-5																
	Weekly Meetings (PM)				TA-3				TA-5		TA-5		TA-6		TA-6														
Outreach and Engagement	Coordination with Tribal Governments				TA-3				TA-5		TA-5																		
	AB-52 Consultation with Tribal Governments				TA-3				TA-5		TA-5																		
	Project Labor Agreement			★																									
	Implementation of Community Engagement Strategy																												
	Engagement with Interested Parties & Affected Communities: Fishermen, neighbors, NGOs, etc.				TA-3				TA-5		TA-5																		
Public Meetings				TA-3				TA-5		TA-5																			
Agency Coordination				TA-3				TA-5		TA-5		TA-5																	
Funding and Grant Applications	Port Infrastructure Development Program (Federal) (will serve as funding for TA-5)		★					award																					
	MPDG Grant Program (MEGA and INFRA) (Federal) (will serve as funding for TA-6)			★					award																				
	Others tbd (grants needed if: above are not secured; and for construction of Phases 2-4)							tbd	tbd		tbd		tbd		tbd														
Data Collection	Upland Geotechnical Borings and Analysis				TA-3																								
	Marine Geotechnical Borings and Analysis											TA-5																	
	Sediment Testing, Analysis, and Sampling											TA-5																	
	Supplemental cultural resource and archaeological surveys											tbd																	
	Supplemental terrestrial biological surveys											tbd																	
	Supplemental marine biological surveys											tbd																	
ROW, Title Reports, Boundary Surveying, Site Surveying (Land & Bathymetry)				TA-3																									
Analysis Work	Dredged Material Management Planning, Coordination, Analysis				TA-3				TA-5		TA-5																		
	Air Quality Analysis, Terminal Electrification Plan, and Green Construction Plan				TA-3				TA-5		TA-5																		
	Living Shoreline/Bank/Dredge Slope Stabilization Assessment/Analysis				TA-3				TA-5		TA-5																		
	USACE Sect 408 Analysis - Hydrodynamics, Sed Transport, Local Wet Storage				TA-3				TA-5		TA-5																		
	Land Transportation Analysis				TA-3				TA-5		TA-5																		
	USCG Analysis – Aids to Navigation, Vessel Maneuvering, and Navigation Analysis				TA-3				TA-5		TA-5																		
	Off-Terminal Habitat Assessments/Surveys				TA-3			TA-3	TA-5		TA-5																		
	Visualization and Noise Analyses/Studies							TA-3	TA-5		TA-5																		
	Coastal/Navigation/Hydrology/SLR/Tsunami Analysis				TA-3				TA-5		TA-5																		
	Power/Electrical/Green Port Analysis				TA-3				TA-5		TA-5																		
Engineering Design	Agency Coordination				TA-3				TA-5		TA-5																		
	Civil Engineering and Site Design				TA-3				TA-5		TA-5																		
	Marine Engineering Design				TA-3				TA-5		TA-5																		
	Cost Estimates/Constructability/Quantities				TA-3				TA-5		TA-5																		
	15% Design				TA-3				TA-5		TA-5																		
	Finalize Basis of Design							TA-3																					
Regulatory/ Permitting	30% Design and Construction Scenarios								TA-5																				
	CEQA Environmental Setting				TA-3																								
	Finalize Project Description							TA-3																					
	CEQA Notice of Preperation / Scoping				TA-3																								
	CEQA Initial Study				TA-3																								
	CEQA Environmental Impact Report								TA-3		TA-5	★																	
	NEPA Environmental Impact Statement								TA-3		TA-5	★																	
Obtain Permits (including Zoning and LCP)				TA-3				★		TA-5	★																		
Marine Geotechnical Investigation Permitting				TA-3			★	★																					

MILESTONE: Permitting Complete

MILESTONE: Terminal Construction Begins



# HUMBOLDT BAY OFFSHORE WIND HEAVY LIFT MARINE TERMINAL: PROJECT TIMELINE (as of Q4 2023)

Work Category	Project Task	2023				2024				2025				2026				2027				2028				2029				
		Jun	Jul	Aug	Sep	Oct	Nov	Dec	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Eelgrass Mitigation Project	Prelim Design, Permitting, CEQA, Final Design, and Bid Documents						TA-4	★		TA-4	★																			
	Construction - Phase 0a-1 - Eelgrass Habitat Restoration/Mitigation									???	tbd?			tbd																
	Construction - Phase 0a-2 - Eelgrass Habitat Restoration/Mitigation																	tbd												
	Construction - Phase 0a-3 - Eelgrass Habitat Restoration/Mitigation																						???	tbd?						
Phase 0 (Non-Eelgrass Bio Mitigation and Roads)	Prepare Final Plans, Specifications, and Bid Documents for Phase 0												TA-5	★																
	Construction - Phase 0b - Marine habitat mitigation/restoration (non-eelgrass)													M*																
	Construction - Phase 0c - Terrestrial habitat mitigation/restoration													M*																
	Construction - Phase 0d - North Access Road (and utilities?)														M*															
	Construction - Phase 0e - Ground-mounted Solar														M*															
	Construction - Phase 0f - South Access Road and utilities														M*															
Terminal Project: Final Design, PS&E, and Bidding	Prepare 60% Plans for Phases 1 through 3													TA-6																
	Prepare 90% Plans and Specifications for Phase 1														TA-6															
	Prepare Final Plans and Specifications for Phase 1																													
	Prepare Bidding Issue Plans and Specifications for Phase 1																													
Terminal Project: Construction	Phase 1a - 40-acre Tarmac/Laydown Yard (and some buildings?)																													
	Phase 1b - North Wharf - Phase 1 (800 LF)																													
	Phase 2 - North Wharf - Phase 2 (800 LF)																													
	Phase 3a - 120-acre Tarmac/Laydown Yard (and some buildings?)																													
	Phase 3b - South Wharf (1600 LF)																													
	Phase 4 - Manufacturing buildings																													
CBP	Community Benefit Program																													
Supplemental Bay Wide Wind Port Master Planning	Green Port Plan						TA-3																							
	Diversity, Equity, Inclusion, and Accessibility (DEIA) Plan																													
	West Coast Floating Offshore Wind Needs Evaluation																													
	Opportunity and Options Analysis for Sites Throughout Port of Humboldt																													
Impact Assessment and Evaluation of Mitigation Alternatives for baywide project concepts																														

Terminal Construction Begins

**Notes and Symbol Key:**

- ★ = Completed HBHRC Board Action
- ★ = Future HBHRC Board Action
- TA-3 = Moffatt & Nichol Contract Task Order 3 (funded w/ CEC \$10.45M grant)
- TA-4 = Moffatt & Nichol Contract Task Order 4 (tentatively funded w/ Caltrans Eelgrass Coop Agreement)
- TA-5 = Moffatt & Nichol Contract Task Order 5 (currently unfunded, but planned to be funded w/ pending PIDP \$10M grant)
- TA-6 = Moffatt & Nichol Contract Task Order 6 (currently unfunded, but planned to be funded w/ pending \$400+M MEGA grant)
- M\* = Construction (currently unfunded, but planned to be funded w/ pending \$400+M MEGA grant and \$400+M private match)
- tbd = To be determined
- | = Major milestone

*This tentative schedule is subject to change.*





- 1) Assume no delay in funding to continue CEQA, 30% Design, other TA-5 work
- 2) Phase 2 ESA on non-district controlled property by mid-2024
- 3) NEPA lead agency identified before December 2023
- 4) PGE consultation on power - Q1 2024 (requires funding to make application)
- 5) Confirmation of prelim Easements/ROW for utility corridor (if needed) by Q2 2024
- 6) Eelgrass Mitigation project design development by Q4 2023
- 7) All biological mitigation required has been determined by Q3 2024

Notes and  
Symbol Key:



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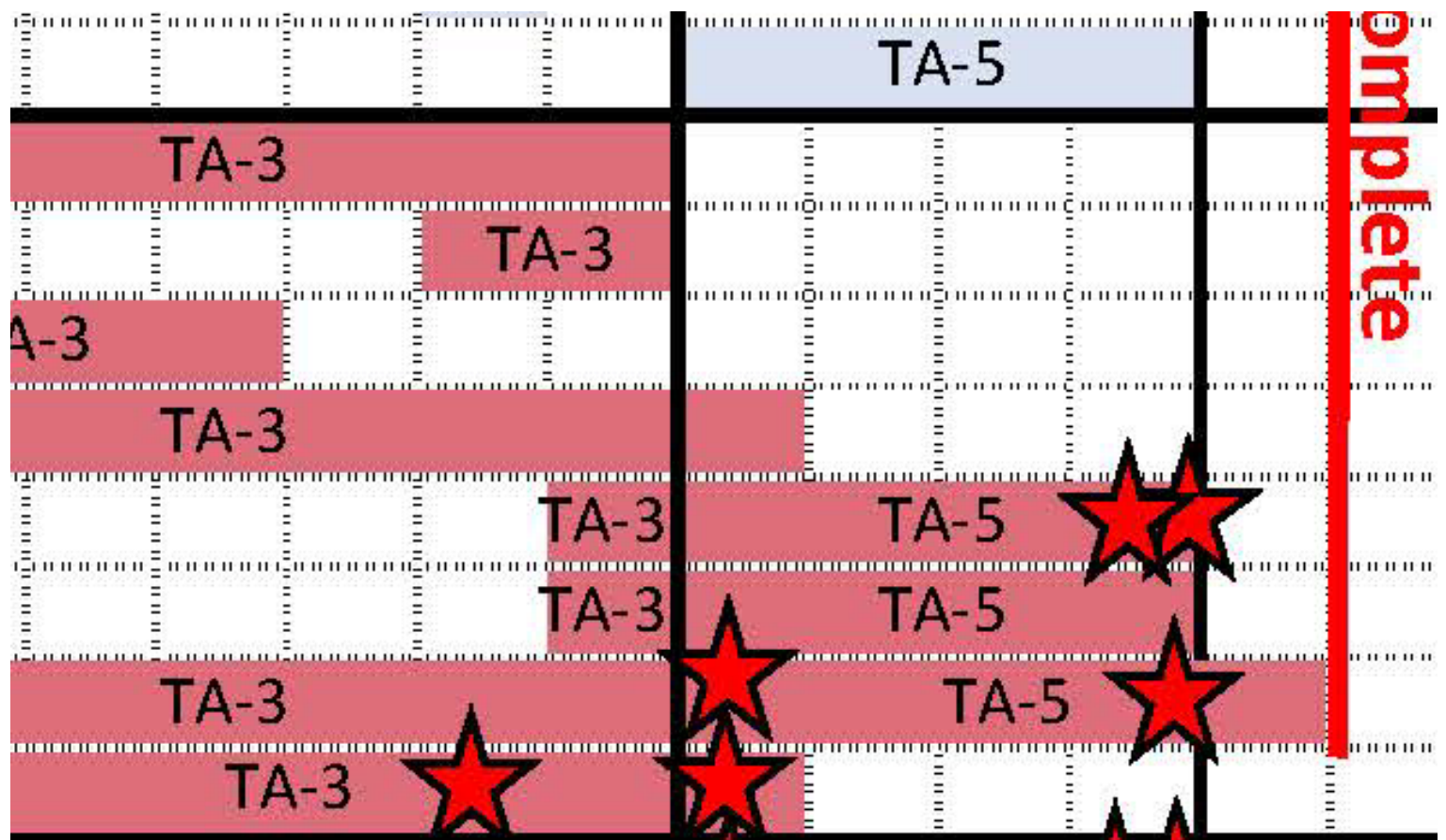
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tbd = To be determined



= Major milestone

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**3 (funded w/ CEC \$10.45M grant)**

**4 (tentatively funded w/ Caltrans Eelgrass Coop Agreement)**

**5 (currently unfunded, but planned to be funded w/ pending PIDP \$10M grant)**

**6 (currently unfunded, but planned to be funded w/ pending \$400+M MEGA grant)**



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





Work Category	Project Task	2023				2024				2025				2026				2027				2028				2029				
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# Future Board Actions

- Community Benefit Program – annual awards/approvals.
- Authorization of grant awards and applications.
- District permit filing approvals (x3).
- District permit approvals (x3).
- Approval of “Diversity, Equity, Inclusion, and Accessibility (DEIA) Plan.”
- Approval of “Green Terminal Plan.”
- Approval of Master Eelgrass Mitigation Project construction bidding RFP(s).
- Approval of wind terminal construction bidding RFP(s).
- Approval of Bay-wide Port Master Plan for Offshore Wind.
- CEQA? DEIR. FEIR.
- ~19 official Board actions in the next five years for this project.
- This does not include leasing, PLA, or other related Board actions.

# Moffat & Nichol Contract Status

- TA-1 through TA-3 is our current contract with Moffatt Nichol.
- TA-1 and TA-2 are complete and fully delivered.



# TA-3 Deliverables (by February 2024)

- Project concept design drawings.
- Visual simulations.
- 15% design drawings and cost estimate.
- 9 special studies.
- Master Project Description for CEQA and permits.
- Draft and Final CEQA Initial Study.
- Draft EIR Environmental Settings Sections.
- Submittal of 6 different permit applications.

# TA-3 Special Studies Deliverables

- Berth dredging sediment sampling and analysis plan.
- Upland Geotechnical study
- Ground transportation study
- Hydrodynamic study
- Biological assessment
- Topographic and utility surveys
- Utility assessment
- Shoreline stabilization and enhancement plan
- Terrestrial biological and wetland mapping



# TA-3 Permit Submittal Deliverables

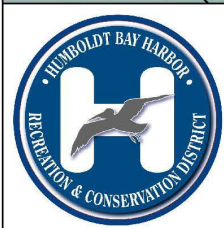
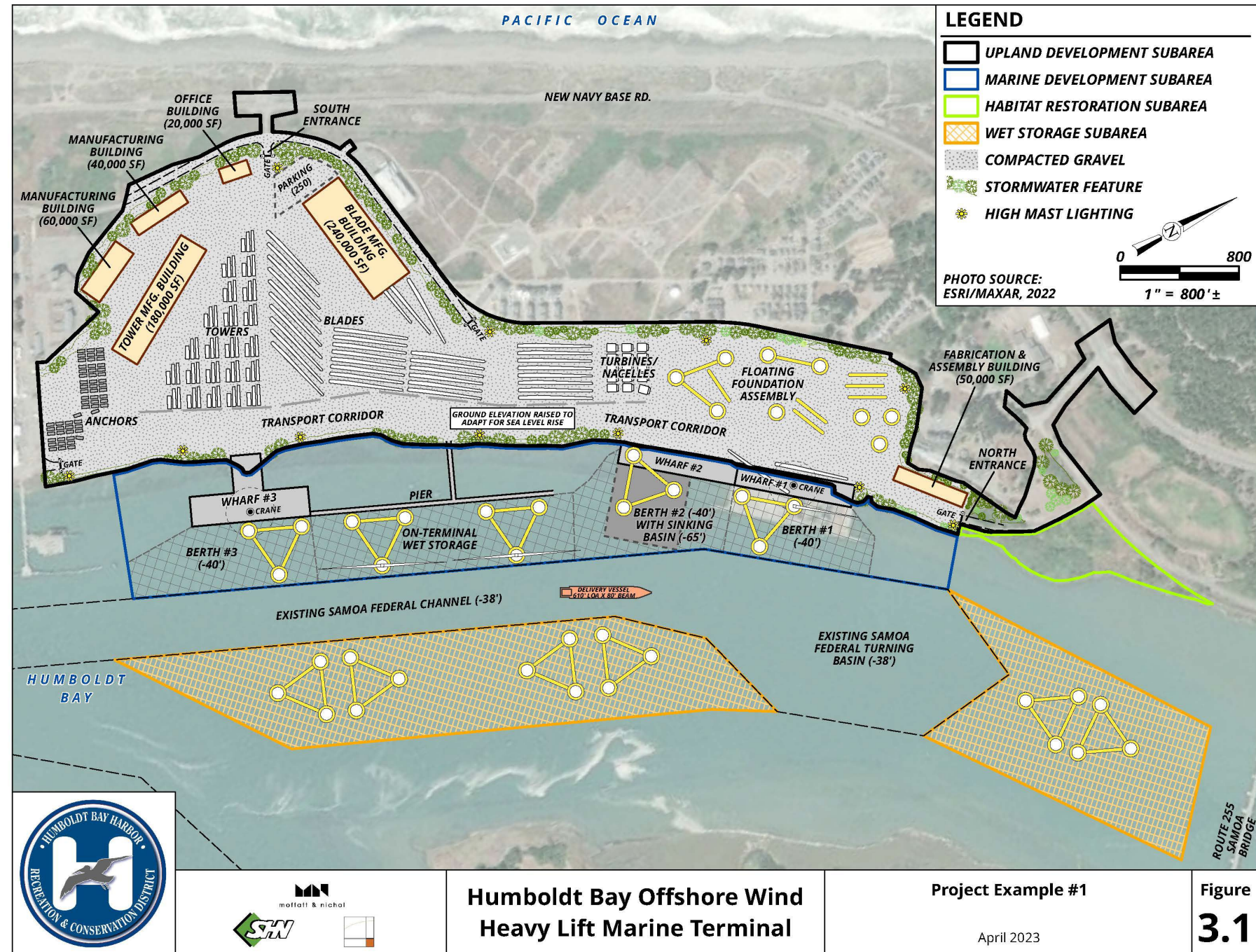
- USACE Section 404/10
- CCC CDP and County consolidation request
- NCRWQCB Section 401
- HBHRCD Permit
- CDFW Section 2081 ITP
- CDFW Section 1600
- Initiation of USACE 408 permit

# Project Design Status



# Design Status

- This map is being updated.
- Wharfs have relocated.
- Multi-disciplinary design status is circling in on a “permit-level design.”



Humboldt Bay Offshore Wind  
Heavy Lift Marine Terminal

Project Example #1

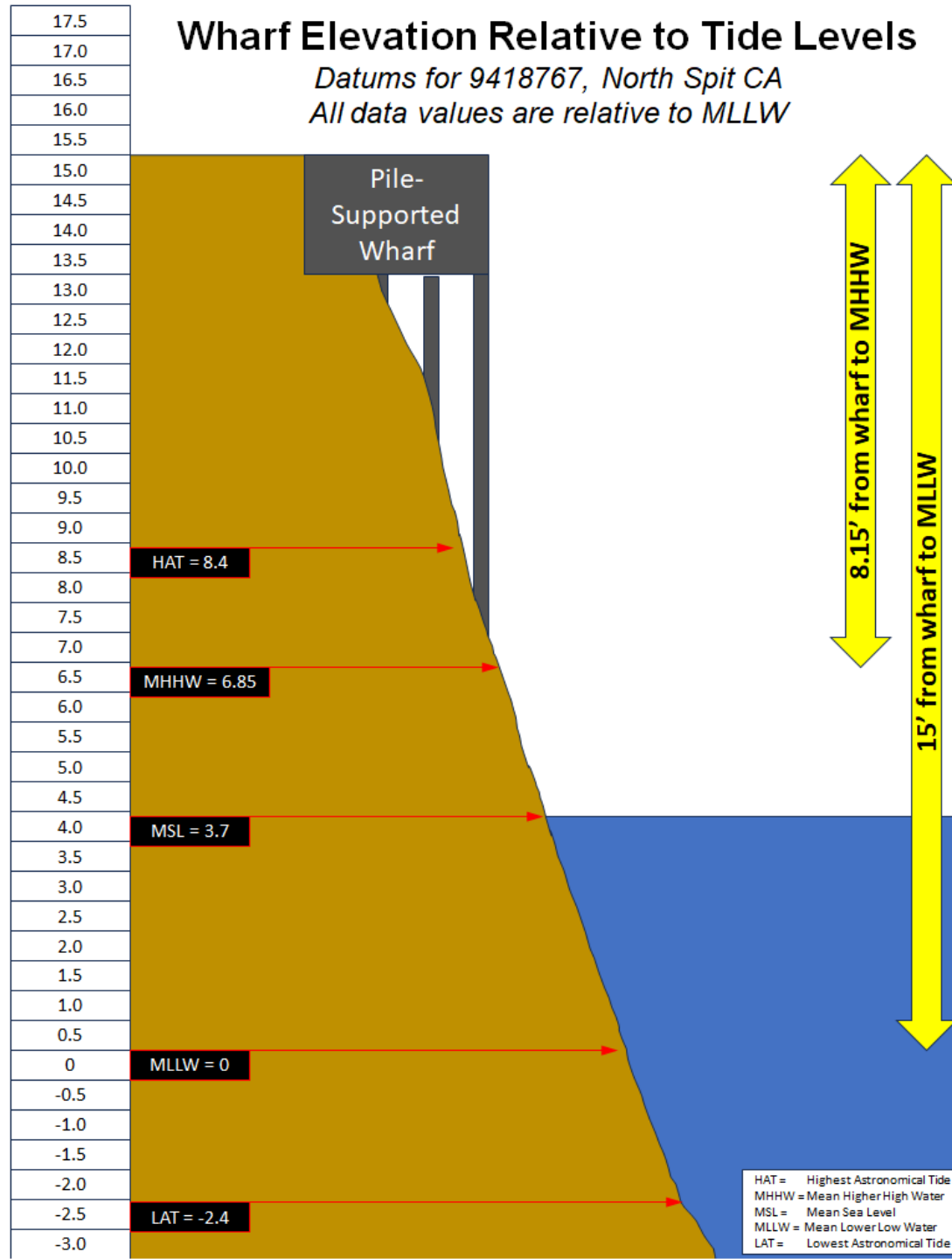
April 2023

Figure  
**3.1**



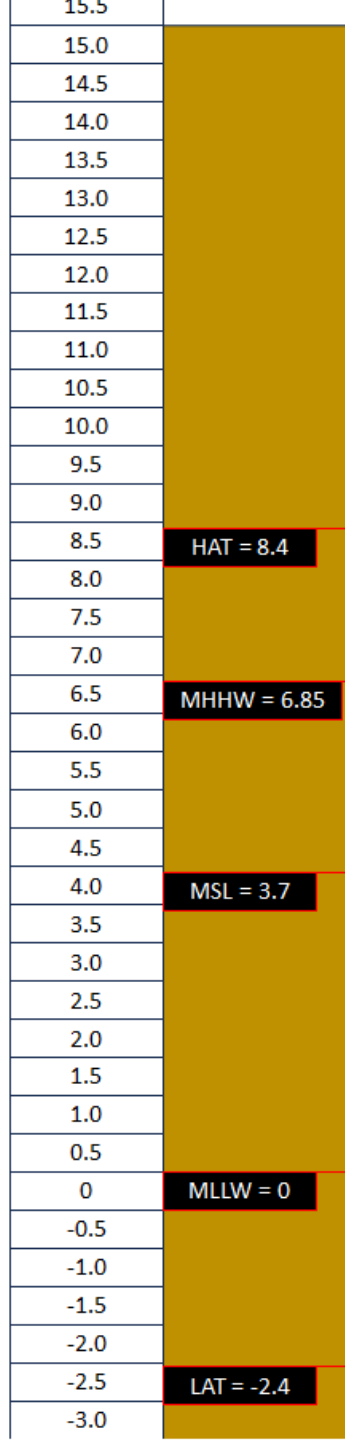
# Wharf Elevation Relative to Tide Levels

Datums for 9418767, North Spit CA  
All data values are relative to MLLW

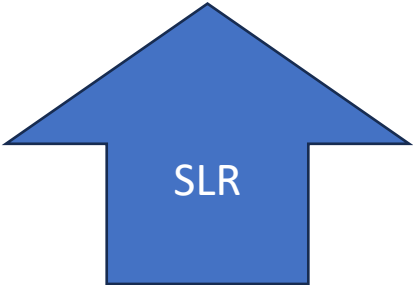


15.5
15.0
14.5
14.0
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-2.5
-3.0

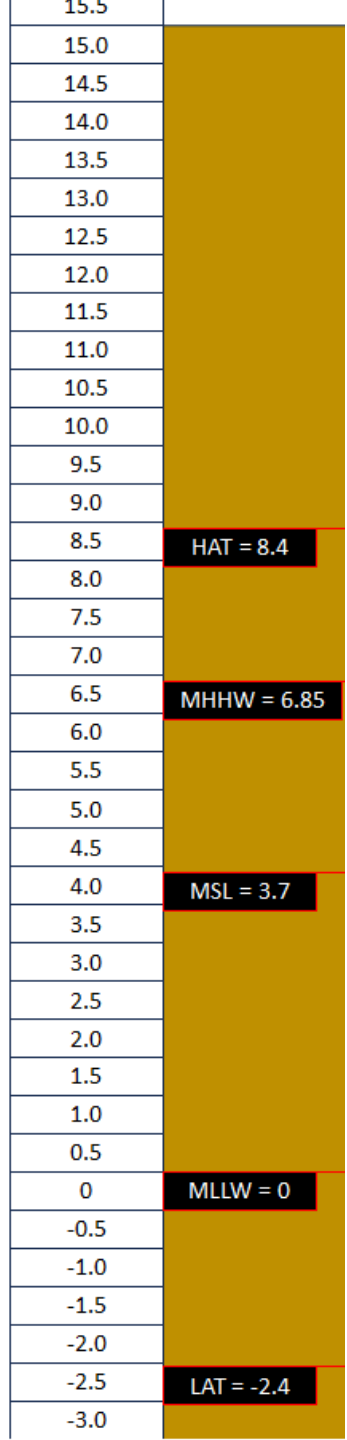




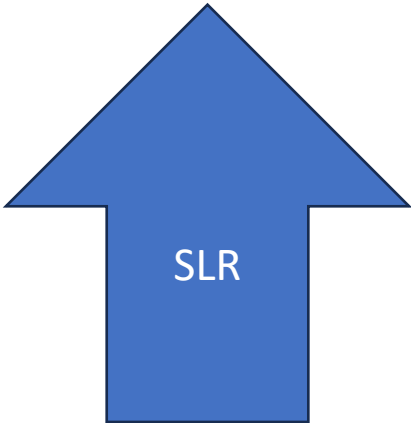
**Wharf elevation?**

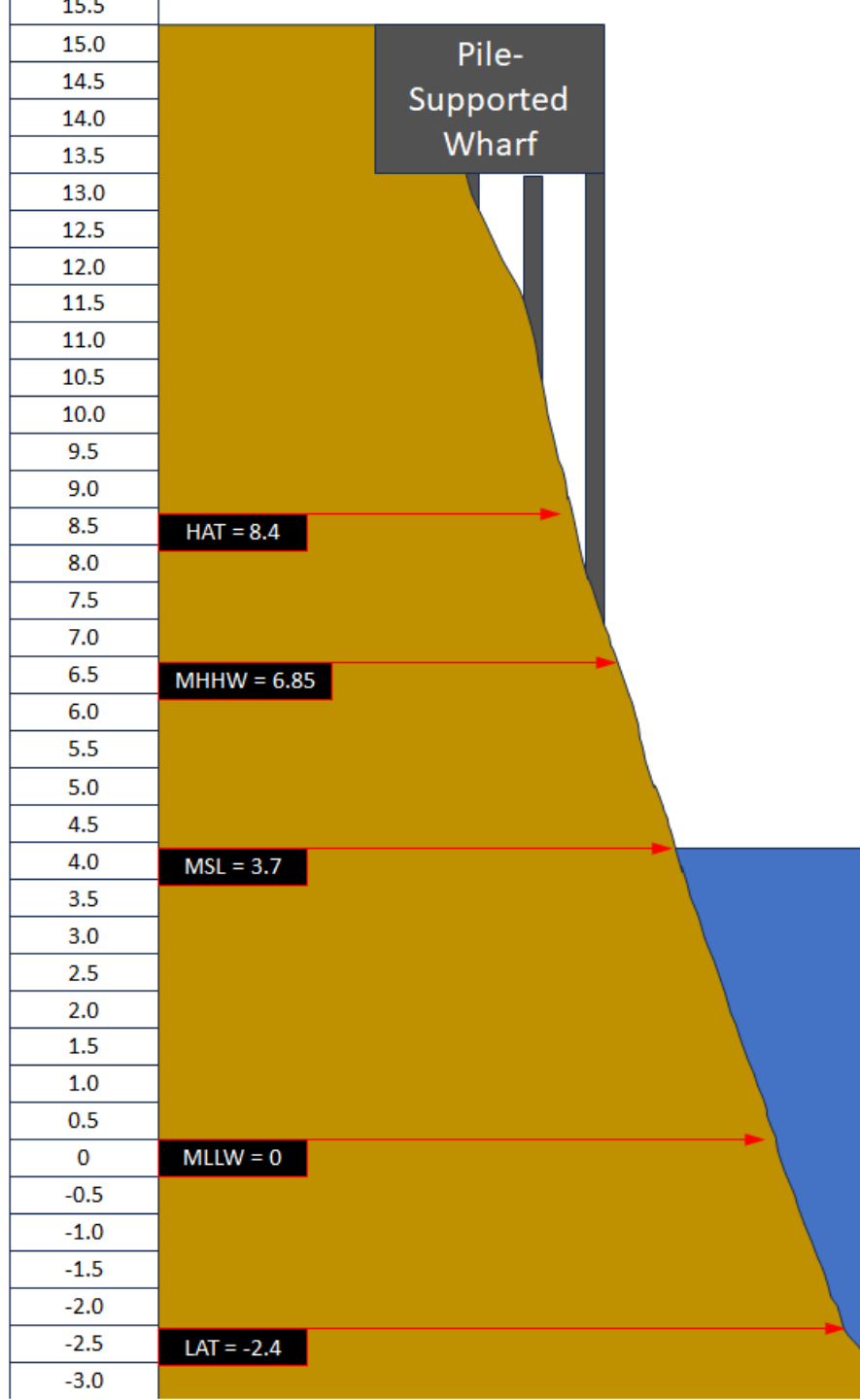


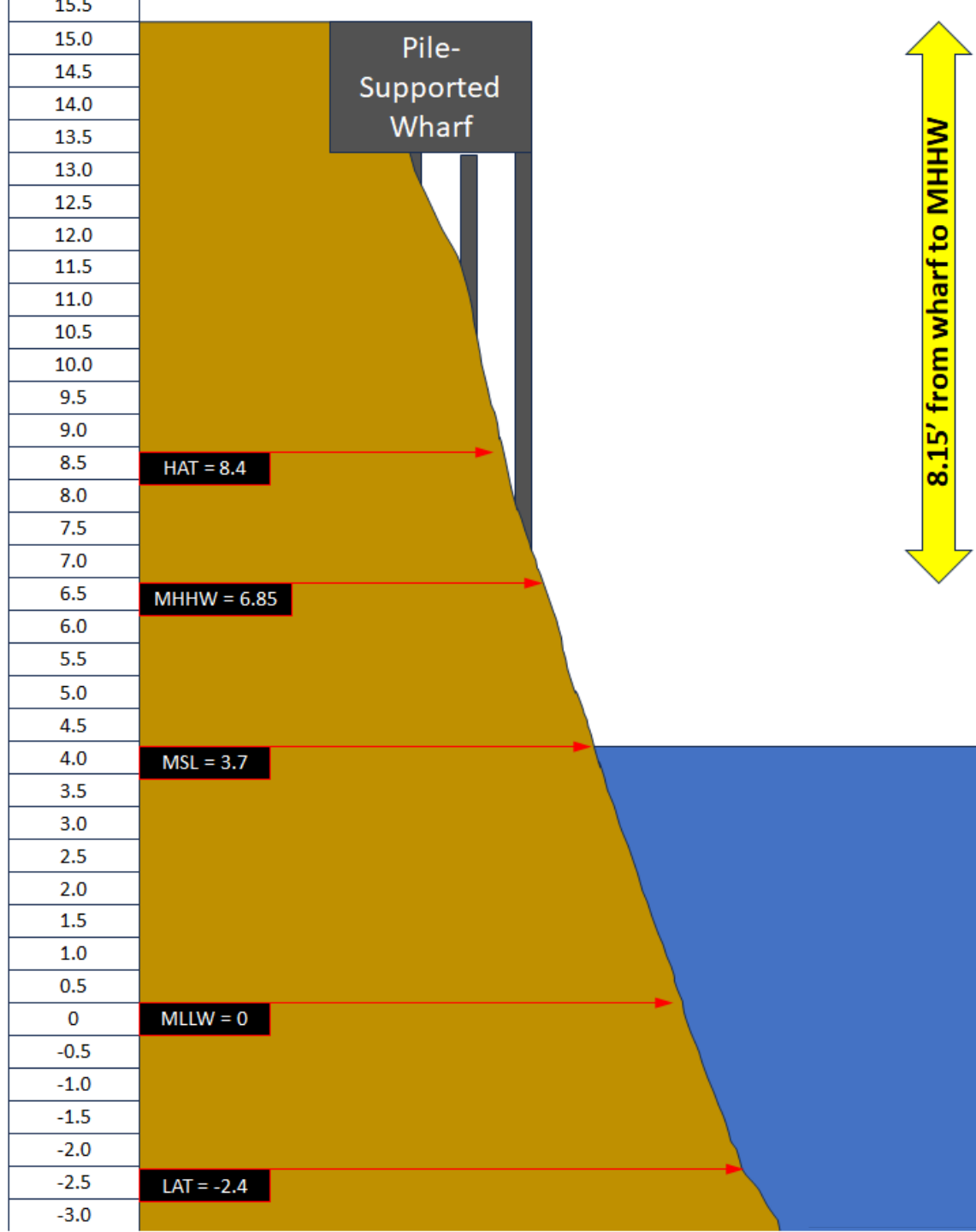




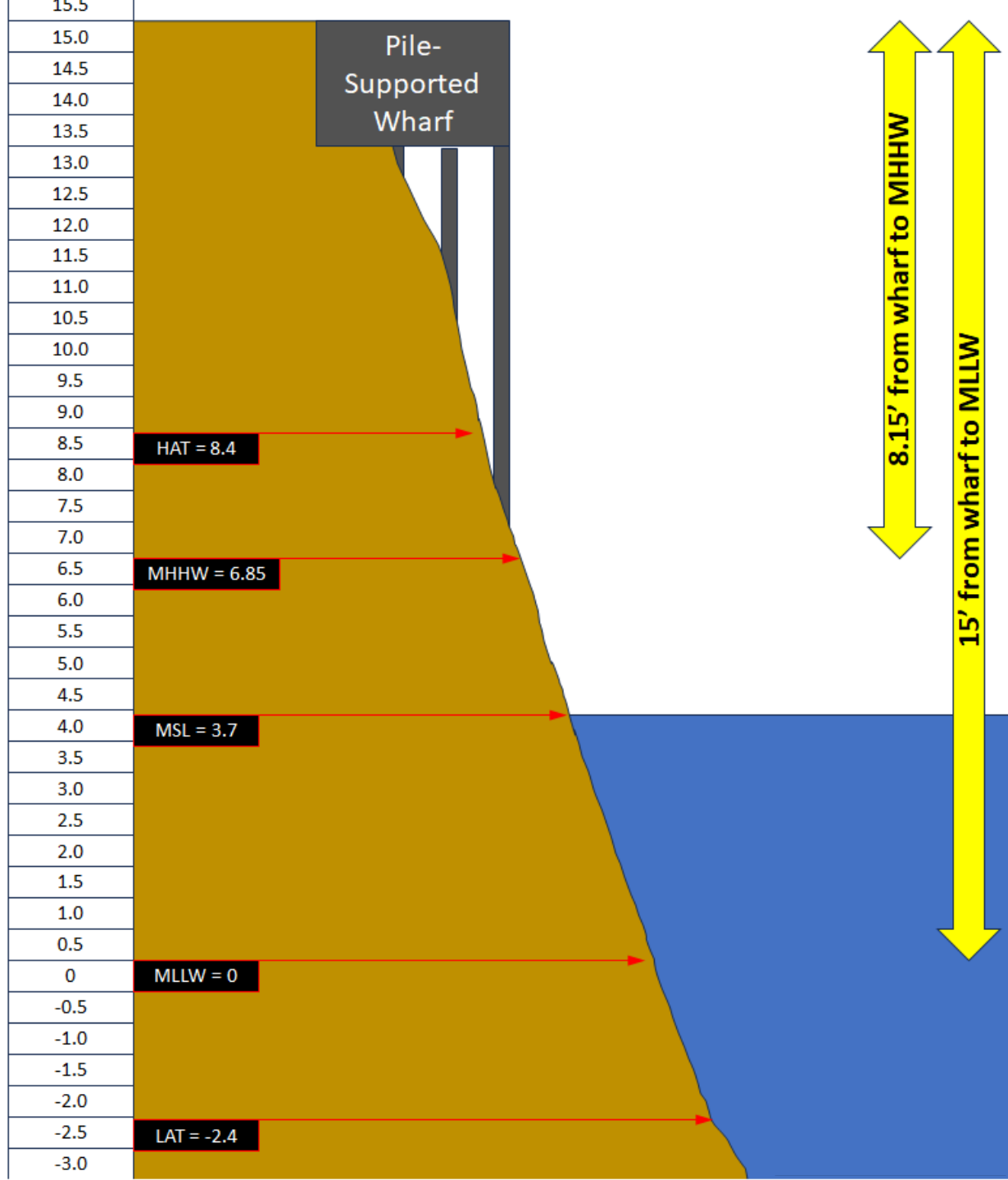
**Wharf elevation?**





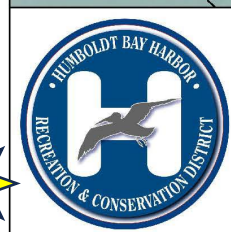
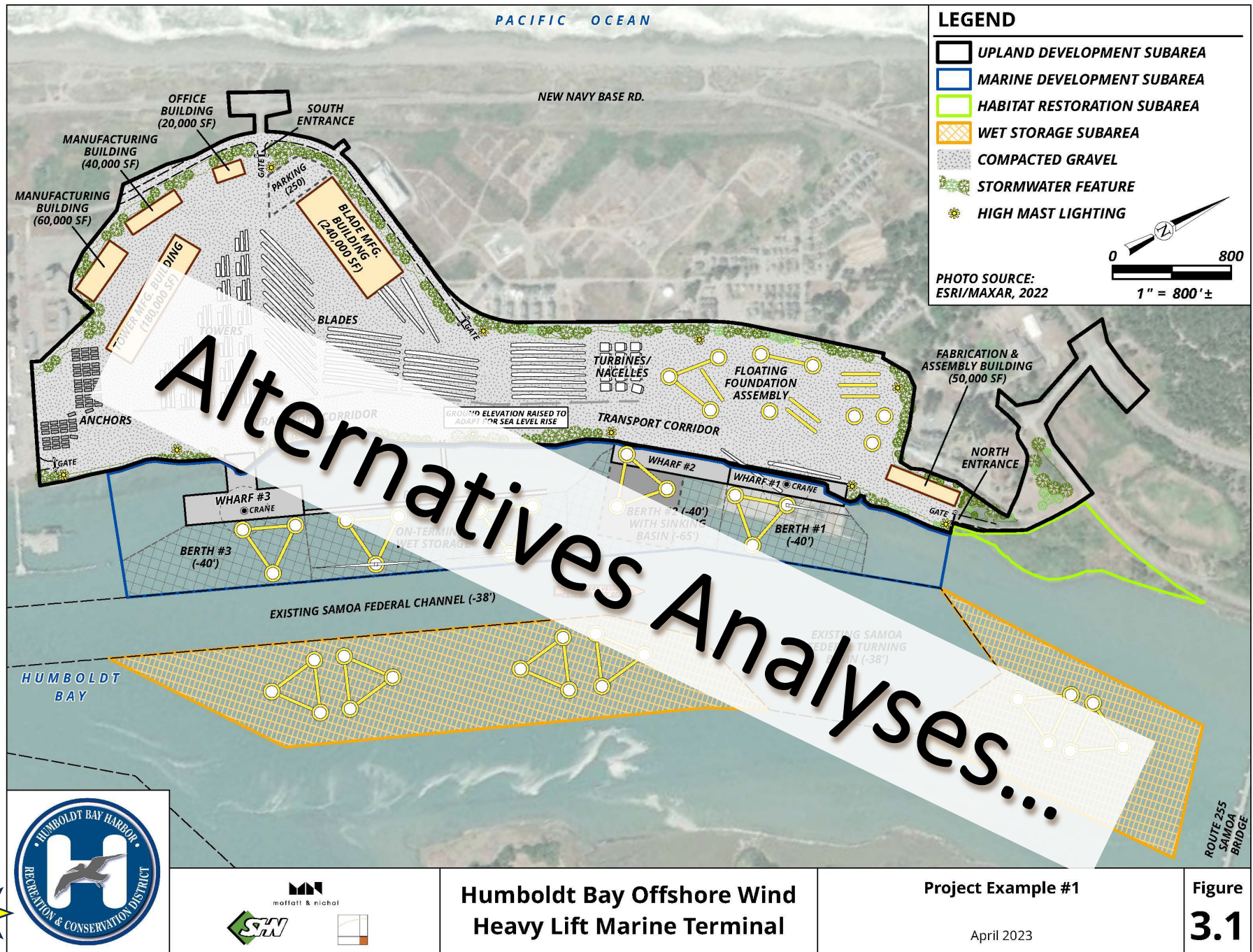






# MULTI-DISCIPLINARY DESIGN PROCESS

- SLR
- Stormwater (WB & CC)
- Ecology
- Utilities/road access
- Geotech
- Shoreline transition
- Marine engineering
- Various impacts
- Community
- Tribes
- Operations



Humboldt Bay Offshore Wind Heavy Lift Marine Terminal

Project Example #1  
April 2023

Figure 3.1

# Community Benefit Considerations





# Community Benefit Considerations

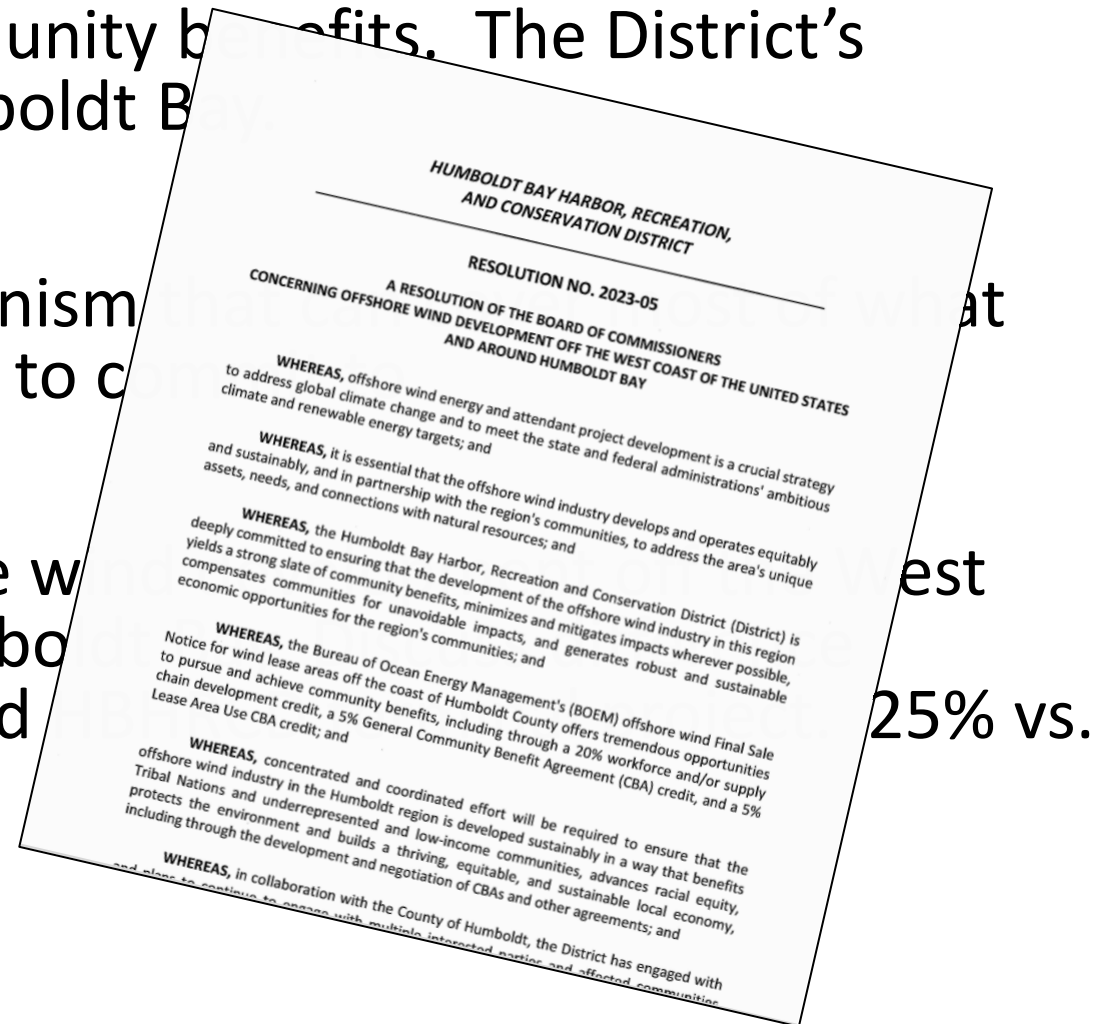
- This topic is too complex to quickly summarize. CC. SLR. Site. EIFD.

- The project inherently includes many community benefits. The District's exclusive purpose is about benefits to Humboldt Bay.

- CEQA is a binding, enforceable, legal mechanism. Various stakeholders have asked the District to consider...

- Resolution No. 2023-05 concerning offshore wind development off the West Coast of the United States and around Humboldt Bay. It addresses CBA requirements, such as 25% vs. 100% local investment...

- MEGA Grant Community Benefit Program



# Community Benefit Program (CBP) (1 of 3)

- **Initial Funding Source:** FY23/24 Multimodal Project Discretionary Grant (INFRA & MEGA)
- **Initial Funding Amount:** \$6,000,000
- **Building the Fund:** The District anticipates that other funding sources will enhance the program's budget. Such sources of additional funding may include other grants, donations from foundations, and other undetermined sources. This could become a revolving fund.
- **Program Administration:** Funds will be issued through a competitive program managed by HBHRCD through an Advisory Committee comprised of Intended Grant Beneficiaries. The Advisory Committee will draft the Community Benefit Program policies, guidelines, review projects and programs against the policies and guidelines, and make recommendation to the HBHRCD Board regarding the management and distribution of funds. The HBHRCD Board will manage the program funds and approve their timely distribution.

# Community Benefit Program (CBP) (2 of 3)

- **Intended Grant Beneficiaries:**

1. Wiyot Tribe; Blue Lake Rancheria; Bear River Rancheria; Tribal-owned lands and/or Tribal-owned business officially recognized by resolution by one of the above Tribal governments; projects/programs/activities officially sanctioned by one of the above Tribal governments via resolution.
2. Residents, businesses, schools, neighborhood associations, and NGOs located on the Samoa Peninsula and within 3.5 miles of the project site.
3. Commercial fishing enterprises based in Humboldt Bay, including commercial fishing businesses, aquaculture businesses, and commercial fishing associations.
4. Recreational users of Humboldt Bay (sailing, boating, fishing, kayaking, paddle boarding, rowing, birding, hunting, clamming, tour guiding, etc).



# Community Benefit Program (CBP) (3 of 3)

- **Preferential Grant Activities.** Preference will be given to grant applications that:
  - Directly alleviate, address, and/or relieve impacts (as defined by the CEQA EIR) created by the construction and/or operations of the project, and;
  - Directly benefit one or more of the intended grant beneficiaries as defined above; and
  - Are officially sanctioned by one or more of the intended grant beneficiaries as defined above; and
  - Provide recreational and/or conservation benefits to Humboldt Bay; and
  - Are geographically located in and/or immediately adjacent to Humboldt Bay.
- **Secondary Grant Activities.** Consideration will be given to grant applications that:
  - Indirectly alleviate, address, and/or relieve impacts (as defined by the CEQA EIR) created by the construction and/or operations of the project, and/or;
  - Indirectly benefit one or more of the intended grant beneficiaries as defined above, and/or;
  - Directly benefit other interest groups, interested parties, or affected communities, and/or
  - Are geographically located in the greater Humboldt Bay region.
- **Timing.** Grants will be issued until funds are expired. Grant announcements and awards may occur up to two times annually for up to 10 years.



# Relationship of Lease and CEQA



# Topics to Cover

- ~~• Grants~~
- ~~• State/Fed Studies~~
- Mitigation Planning
- ~~• Schedule~~
- ~~• Budget~~
- ~~• Tribes~~
- ~~• MMIP~~
- General community outreach
- ~~• NOP comments~~
- County LCP
- ~~• Community benefit agreements as outlined in District Resolution 2023-05~~
- ~~• Community benefit program~~